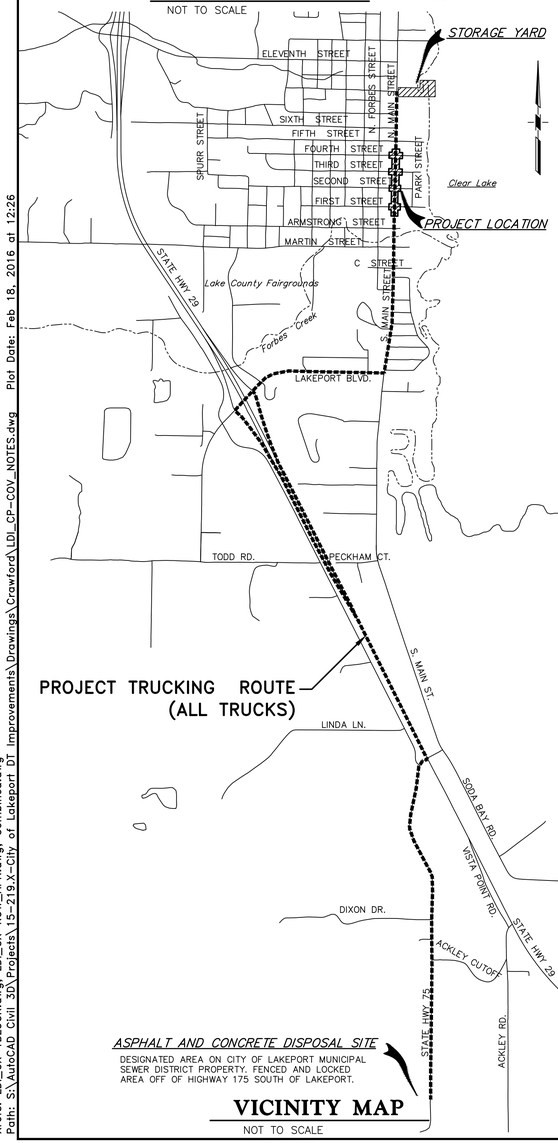
APPENDIX 1
DOWNTOWN IMPROVEMENT PROJECT – PHASE II, BID NO. 16-01
IN THE CITY OF LAKEPORT, CALIFORNIA

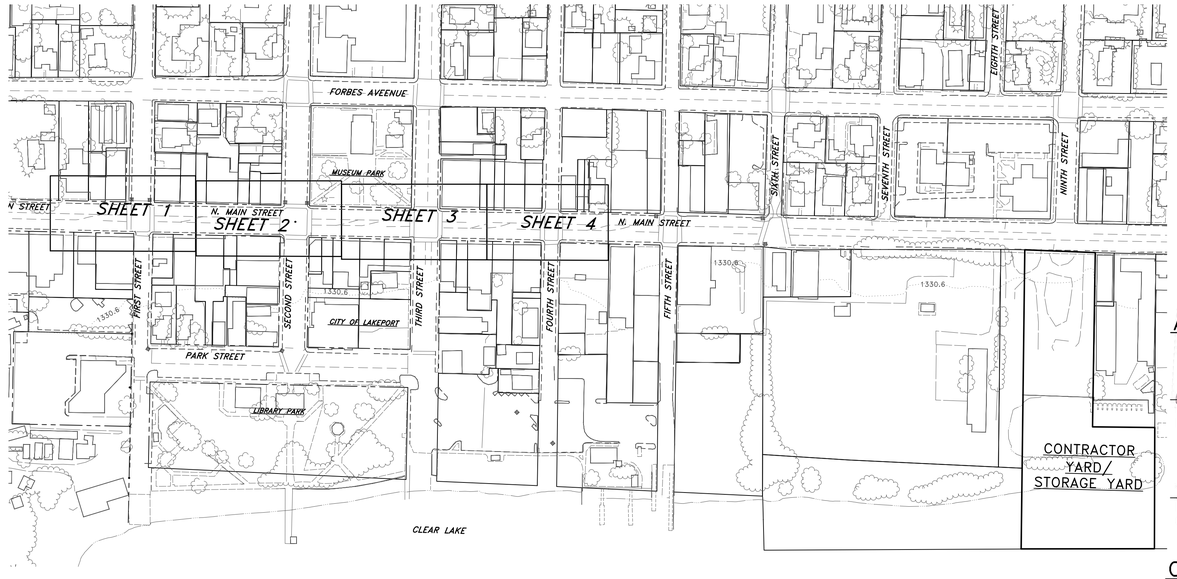
Standard Details Applicable to Project

CITY OF LAKEPORT
PLANS FOR
LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
LAKEPORT, CA
PREPARED FOR
CITY OF LAKEPORT
AGENCY

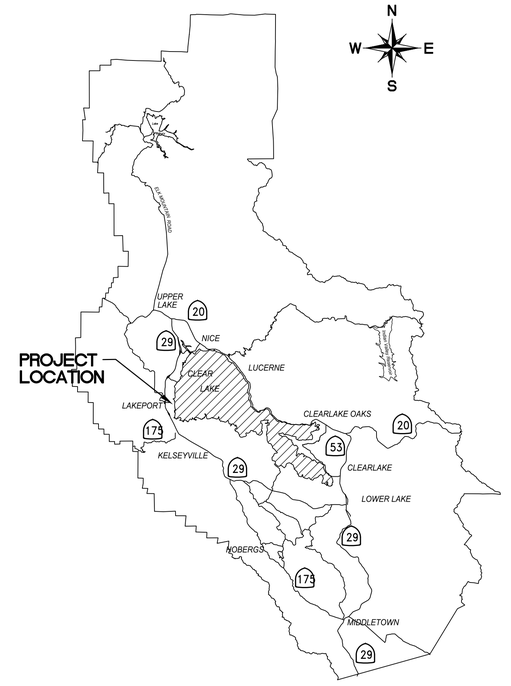
LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



KEY MAP



LAKE COUNTY MAP
NOT TO SCALE

APPROVED:

PAUL CURREN, P.E. — INTERIM CITY ENGINEER — FEB. 18, 2016 DATE

KEVIN INGRAM — COMMUNITY DEVELOPMENT DIRECTOR — FEB. 18, 2016 DATE

CERTIFICATION:

I CERTIFY THAT THIS PROJECT WAS DESIGNED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES.

CATHY A. McKEON, R.P.E. NO. 51026 — PROJECT CIVIL ENGINEER — FEB. 18, 2016 DATE

GEORGE C. RAU, R.P.E. NO. 21908 — FOR BOUNDARY, TOPOGRAPHIC SURVEY AND EXISTING CONDITIONS — FEB. 18, 2016

CONTACT INFORMATION:

CIVIL AND GEOTECHNICAL ENGINEERING
CRAWFORD AND ASSOCIATES, INC.
100 PINE STREET
UKIAH, CA 95482
(707) 240-4400 x110
ATTN.: CATHY McKEON, P.E.

PLANNING AND LANDSCAPE ARCHITECTURE
HARRIS DESIGN
755 FOLGER AVENUE
BERKELEY, CA 94710
(510) 647-3792
ATTN.: BILL HARRIS, ASLA

ELECTRICAL ENGINEERING
MARS BURNSIDE ENGINEERING
11008 RAINBOW RIVER CT.
RANCHO CORDOVA, CA
95670-2723
(916) 838-2501
ATT.: MARS BURNSIDE, P.E.

LAND SURVEYING
RAU AND ASSOCIATES, INC.
100 PINE STREET
UKIAH, CA 95482
(707) 462-6536
ATTN.: GEORGE RAU, P.E.

LAKEPORT COMMUNITY DEVELOPMENT
200 PARK STREET
LAKEPORT, CA 95435
(707) 263-5613 EXT. 11
ATTN.: KEVIN INGRAM

CITY OF LAKEPORT
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LAKEPORT, CA 95435
(707) 263-5613 EXT. 28
INTERIM CITY ENGINEER
ATTN.: PAUL CURREN, P.E.

REGISTERED PROFESSIONAL ENGINEER — GEORGE C. RAU — NO. 21908 EXP. 9-30-17 CIVIL — STATE OF CALIFORNIA — FEB. 18, 2016

REGISTERED PROFESSIONAL ENGINEER — CATHY A. McKEON — NO. 51026 EXP. 9-30-17 CIVIL — STATE OF CALIFORNIA — FEB. 18, 2016

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc. — Geotechnical Engineering, Design and Construction Services — 100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
MAIN STREET–FIRST ST TO FOURTH ST LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

COVER SHEET

CITY OF LAKEPORT — DRAWING NUMBER G-1 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; Combined.dwg
Path: S:\AutoCAD Civil 3D Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-COV_NOTES.dwg Plot Date: Feb 18, 2016 at 12:26

SHEET INDEX

SHT. NO.	DESCRIPTION	GENERAL
G-1	COVER SHEET	
G-2	INDEX SHEET, CONTACTS AND ABBREVIATIONS	
G-3	GENERAL NOTES	
G-4	GENERAL NOTES	
G-5	SURVEY CONTROL PLAN	

SHT. NO.	DESCRIPTION	CIVIL PLANS
D-1	EXISTING CONDITIONS/DEMOLITION PLANS	S. MAIN STREET – STA: "MS" 66+25 TO STA: 67+75
D-2	EXISTING CONDITIONS/DEMOLITION PLANS	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
D-3	EXISTING CONDITIONS/DEMOLITION PLANS	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
D-4	EXISTING CONDITIONS/DEMOLITION PLANS	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00
TS-1	TYPICAL SECTIONS	
TS-2	TYPICAL SECTIONS	
TS-3	TYPICAL SECTIONS	
CL-1	PAVEMENT LAYOUT PLAN	S. MAIN STREET – STA: "MS" 66+25 TO STA: 67+75
CL-2	PAVEMENT LAYOUT PLAN	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
CL-3	PAVEMENT LAYOUT PLAN	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
CL-4	PAVEMENT LAYOUT PLAN	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00
CG-1	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 66+25 TO STA: 67+75
CG-2	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 67+75 TO STA: 69+25
CG-3	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 69+25 TO STA: 70+75
CG-4	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 70+75 TO STA: 72+25
CG-5	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 72+25 TO STA: 73+75
CG-6	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 73+75 TO STA: 75+00
CG-7	SIDEWALK LAYOUT AND GRADING PLAN	MAIN STREET STA: "MS" 75+00 TO STA: 76+00
CP-1	CONSTRUCTION PROFILE PLAN	S. MAIN STREET – STA: "MS" 66+00 TO STA: 67+75
CP-2	CONSTRUCTION PROFILE PLAN	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
CP-3	CONSTRUCTION PROFILE PLAN	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
CP-4	CONSTRUCTION PROFILE PLAN	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00
CP-5	CONSTRUCTION PROFILE PLAN	FIRST STREET
CP-6	CONSTRUCTION PROFILE PLAN	SECOND STREET
CP-7	CONSTRUCTION PROFILE PLAN	THIRD STREET
CP-8	CONSTRUCTION PROFILE PLAN	FOURTH STREET
CD-1	SIDEWALK DETAILS	
CD-2	SIDEWALK DETAILS	
CD-3	SIDEWALK DETAILS	
CD-4	SIDEWALK DETAILS	
CD-5	DRAINAGE DETAILS	
CD-6	UTILITY DETAILS	
SD-1	STORM DRAIN PLAN & PROFILE	FIRST ST. & N. MAIN ST. / SECOND ST. & N. MAIN ST.
SD-2	STORM DRAIN PLAN & PROFILE	THIRD ST. & N. MAIN ST. / FOURTH ST'
U-1	WATER-SEWER PLAN AND NOTES	MAIN STREET – STA: "MS" 67+00 TO STA: 70+00
U-2	WATER-SEWER PROFILE	MAIN STREET – STA: "MS" 67+00 TO STA: 70+00
U-3	WATER-SEWER PLAN & PROFILE	MAIN STREET – STA: "MS" 70+00 TO STA: 73+50
U-4	WATER SEWER PLAN & PROFILE	MAIN STREET – STA: "MS" 73+00 TO STA: 76+00
PD-1	PAVEMENT DELINEATION AND SIGN PLAN	S. MAIN STREET – STA: "MS" 66+75 TO STA: 67+75
PD-2	PAVEMENT DELINEATION AND SIGN PLAN	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
PD-3	PAVEMENT DELINEATION AND SIGN PLAN	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
PD-4	PAVEMENT DELINEATION AND SIGN PLAN	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00

SHT. NO.	DESCRIPTION	ELECTRICAL PLANS
E-1	ELECTRICAL LAYOUT PLAN	S. MAIN STREET – STA: "MS" 66+75 TO STA: 67+75
E-2	ELECTRICAL LAYOUT PLAN	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
E-3	ELECTRICAL LAYOUT PLAN	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
E-4	ELECTRICAL LAYOUT PLAN	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00
E-5	ELECTRICAL DETAILS	
E-6	ELECTRICAL DETAILS	
E-7	ELECTRICAL DETAILS	
E-8	ELECTRICAL DETAILS	

SHT. NO.	DESCRIPTION	LANDSCAPE PLANS
L-1	PLANTING & SITE FURNITURE PLAN	S. MAIN STREET – STA: "MS" 66+25 TO STA: 67+75
L-2	PLANTING & SITE FURNITURE PLAN	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
L-3	PLANTING & SITE FURNITURE PLAN	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
L-4	PLANTING & SITE FURNITURE PLAN	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00
L-5	LANDSCAPE CONSTRUCTION DETAILS	
L-6	LANDSCAPE CONSTRUCTION DETAILS	
LI-1	IRRIGATION PLAN	S. MAIN STREET – STA: "MS" 66+25 TO STA: 67+75
LI-2	IRRIGATION PLAN	N. MAIN STREET – STA: "MS" 67+75 TO STA: 70+75
LI-3	IRRIGATION PLAN	N. MAIN STREET – STA: "MS" 70+75 TO STA: 73+50
LI-4	IRRIGATION PLAN	N. MAIN STREET – STA: "MS" 73+50 TO STA: 76+00
LI-5	IRRIGATION LEGEND	
LI-6	IRRIGATION DETAILS	

SHT NO.	DESCRIPTION	TRAFFIC CONTROL PLANS	
T-1	PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN		FULL LENGTH
T-2	PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN DETAILS		TEMPORARY PEDESTRIAN ACCESS
T-3	PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN DETAILS		TEMPORARY PEDESTRIAN SIGNAGE

UTILITY CONTACT INFORMATION

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ROY GILLHAM, CUSTOMER RELATIONSHIP MANAGER,
2461 N. STATE STREET
UKIAH, CA. 95482
(707) 468-3922
(707) 380-3052 CELL

PACIFIC GAS AND ELECTRIC COMPANY
BOB SHIELDS, ASSOC. DISTRIBUTION ENGINEER SERVICE PLANNING
1575 HIGH STREET
LAKEPORT, CA. 95453
(707) 262-1902

AT&T
MIKE HOLLAND
AREA REPRESENTATIVE
2510 OLD HIGHWAY 53
CLEARLAKE, CA 95422
(707) 995-0650 OFFICE
(707) 295-8109 CELL

MEDIACOM
MIKE CARUTHERS, PLANT MANAGER
13221 EAST HWY 20
PO Box 1180
CLEARLAKE OAKS, CA 95423
(707) 998-1184

CITY OF LAKEPORT-CORPORATE YARD
DOUG GRIDER, PUBLIC WORKS SUPERINTENDENT
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LAKEPORT, CA 95453
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kingram@cityoflakeport.com

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LAKEPORT, CA 95453
(707) 263-3056 EXT. 14

ABBREVIATIONS

AB	AGGREGATE BASE	OH/E	OVER HEAD ELECTRIC SERVICE/S
AC	ASPHALT CONCRETE	OMR	OFFICE MINE RECLAMATION
ASI	AMERICAN STANDARD INSTITUTE	OS	OFFSET
ASTM	ASSOCIATION for STANDARD TESTINGS and MATERIALS	(P)	PROPOSED
BC	BEGIN CURVE	PC	POINT OF CURVATURE
BSW	BACK OF SIDEWALK	PCC	PORTLAND CONCRETE CEMENT OR EQUAL
BVCE	BEGIN VERTICAL CURVE ELEVATION	PL	PROPERTY LINE
BVCS	BEGIN VERTICAL CURVE STATION	PRC	POINT OF REVERSE CURVE
BW	BACK OF SIDEWALK	PT	POINT OF TANGENCY
CDF	CONTROLLED DENSITY BACKFILL	PUE	PUBLIC UTILITY EASEMENT
CI	CURB INLET	PVC	POINT ON VERTICAL CURVE
CNT	CENTER	PVI	POINT OF VERTICAL INTERSECTION
CL	CENTERLINE	R	RADIUS
CLSM	CONTROLLED LOW STRENGTH MATERIAL	RAD	RADIAL
CMP	CORRUGATED METAL PIPE	RC	RELATIVE COMPACTION
CONC	CONCRETE	RCP	REINFORCED CONCRETE PIPE
CR	CURB RETURN	REG	REGISTERED ENGINEERING GEOLOGIST
DI	DROP INLET	RT	RIGHT
DW	DRIVEWAY	RTW	RETAINING WALL
DWY	DRIVEWAY	R.O.W.	RIGHT OF WAY
EC	END CURVE	S	SLOPE
EG	EXISTING GROUND	SD	STORM DRAIN
ELEV	ELEVATION	SDCB	STORM DRAIN CATCH BASIN
EP	EDGE OF PAVEMENT	SDDI	STORM DRAIN INLET
ESMT	EASEMENT	SDE	STORM DRAIN EASEMENT
ETW	EDGE OF TRAVEL WAY	SDMH	STORM DRAIN MANHOLE
EVCE	END VERTICAL CURVE ELEVATION	SS	SANITARY SEWER
EVCS	END VERTICAL CURVE STATION	SSCO	SANITARY SEWER CLEANOUT
(E)	EXISTING	SSE	SANITARY SEWER EASEMENT
EX.	EXISTING	SSMH	SANITARY SEWER MANHOLE
FC	FACE OF CURB	STA	STATION
FG	FINISH GRADE	STD	STANDARD
FH	FIRE HYDRANT	SW	SIDEWALK
GB	GRADE BREAK	SWE	SIDEWALK EASEMENT
HDPE	HIGH DENSITY POLYETHELYNE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
HMA	HOT MIX ASPHALT	SPCC	SPILL PREVENTION CONTROL COUNTERMEASURES
HP	HIGH POINT	SG	SUB GRADE
HW	HEADWALL	TP	TEST PIT
IG	INVERT GRADE	TFC	TOP FACE OF CURB
INV	INVERT	TB	TOP OF BERM
INTX	INTERSECTION	TC	TOP OF CURB
JB	JUNCTION BOX	TD	TOP OF DIKE
L	LENGTH	TG	TOP OF GRATE
LF	LINEAL FEET	TI	TRAFFIC INDEX
LP	LOW POINT	TOW	TOP OF WALL
LT	LEFT	TYP	TYPICAL
MON	MONUMENT	U.O.N.	UNLESS OTHERWISE NOTED
MMP	MITIGATION AND MONITORING PLAN	VC	VERTICAL CURVE/VITRIFIED CLAY
M&P	MECHANICAL AND PLUMBING CONTRACTOR	WL	WATER LINE
MSHA	MINES SAFETY HEALTH ADMINISTRATION		
NS	NON-STANDARD CURB		
NTS	NOT TO SCALE		

LINE TYPES:

PROPOSED EDGE OF ROADWAY

APPROXIMATE R.O.W./PROPERTY LINE

STATION LINE/CENTERLINE OF R.O.W.

DAYLIGHT LINE FOR CUT AND FILL SLOPES

BID SET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
MAIN STREET–MARTIN ST TO THIRD ST LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB 2016		REVIEWED BY:	CAM

INDEX SHEET, ABBREVIATIONS AND LINETYPE LEGEND

CITY OF LAKEPORT | DRAWING NUMBER G-2 of 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; Combined.dwg
Path: C:\Users\ryanhoughton\appdata\local\temp\AcPublish_3228\LDI_GP-COV_NOTES.dwg Plot Date: Feb 18, 2016 at 15:50

A. GENERAL NOTES

1. ALL MATERIAL, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CITY OF LAKEPORT STANDARD SPECIFICATIONS AND STANDARD PLANS (2012) AND THE 2010 CALTRANS STANDARD PLANS AND SPECIFICATIONS, 2010 ENGLISH UNIT EDITION.
2. FOR WORK IN OR AFFECTING THE CITY OF LAKEPORT ROAD RIGHT-OF-WAY, THE CONTRACTOR AND ANY SUBCONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF LAKEPORT DEPARTMENT OF PUBLIC WORKS BEFORE START OF WORK. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMIT. (NO PERMIT FEE)
3. CONTRACTOR SHALL GIVE THE CITY OF LAKEPORT CONSTRUCTION ENGINEER 72 HOURS NOTICE BEFORE STARTING WORK. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING PRIOR TO THE 72 HOUR NOTICE. CALL: KEVIN INGRAM AT (707) 263-5615.
4. THE CONTRACTOR SHALL POSSES THE CLASS(ES) OF LICENSE(S) AS SPECIFIED AS SPECIFIED IN THE "NOTICE TO CONTRACTORS" CONTAINED IN THE INVITATION TO BID FOR THIS PROJECT.
5. WORK HOURS ARE AS SPECIFIED IN PROJECT SPECIAL PROVISIONS.
6. ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF LAKEPORT AND AND ENGINEER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
7. THE CONTRACTOR SHALL MAINTAIN A NEAT APPEARANCE TO THE WORK. IN ANY AREA VISIBLE TO THE PUBLIC, THE FOLLOWING SHALL APPLY: WHEN PRACTICABLE, BROKEN CONCRETE AND DEBRIS DEVELOPED DURING CLEARING AND GRUBBING SHALL BE DISPOSED OF CONCURRENTLY WITH ITS REMOVAL. IF STOCKPILING IS NECESSARY, THE MATERIAL SHALL BE REMOVED OR DISPOSED OF DAILY. THE CONTRACTOR SHALL FURNISH TRASH BINS FOR ALL DEBRIS FROM STRUCTURE CONSTRUCTION. ALL DEBRIS SHALL BE PLACED IN TRASH BINS DAILY. FORMS OR FALSEWORK THAT ARE TO BE REUSED SHALL BE STACKED NEATLY CONCURRENTLY WITH THEIR REMOVAL. FORMS AND FALSEWORK THAT ARE NOT TO BE REUSED SHALL BE DISPOSED OF CONCURRENTLY WITH THEIR REMOVAL.
8. CONTRACTOR SHALL PROVIDE COMPACTION, GRADATION, SAND EQUIVALENT AND ALL OTHER TESTS AS REQUIRED BY THE CITY OF LAKEPORT. SEE GRADING NOTES.
9. CONTRACTOR SHALL IMMEDIATELY HALT ALL GRADING/EXCAVATION/TRENCHING ACTIVITIES AND CONTACT THE LAKE COUNTY COMMUNITY DEVELOPMENT DEPARTMENT AT 263-2221 IMMEDIATELY IF ARCHAEOLOGICAL, HISTORICAL OR PALEONTOLOGICAL RESOURCES ARE ENCOUNTERED, OR IN THE EVENT OF THE ACCIDENTAL DISCOVERY OF HUMAN REMAINS.
10. THE CONTRACTORS ATTENTION IS DIRECTED TO SECTION XX OF THE SPECIAL PROVISIONS REGARDING PUBLIC CONVENIENCE AND ACCESS.
11. SEE ELECTRICAL, LANDSCAPING AND IRRIGATION PLANS AND SPECIFICATIONS FOR ALL ASSOCIATED NOTES.

B. PRESERVATION OF SURVEY MONUMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, BOUNDARIES, STREETS, HIGHWAYS, OR OTHER RIGHTS-OF-WAY, EASEMENTS, OR PROVIDE SURVEY CONTROL WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE TO CIVIL ENGINEER OR SURVEYOR IN RESPONSIBLE CHARGE OF THE WORK PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. CIVIL ENGINEER OR SURVEYOR IN RESPONSIBLE CHARGE OF THE WORK SHALL COORDINATE WITH CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST TO RESET ANY SURVEY MONUMENTS DAMAGED BY CONTRACTOR'S PERSONNEL. RESET OF MONUMENTS, WHERE NECESSARY SHALL BE DONE IN ACCORDANCE WITH CALTRANS STANDARD PLANS A74.

NOTIFICATION FOR INSPECTIONS

APPROVAL OF ALL WORK SHALL BE NECESSARY AT THE COMPLETION OF EACH OF THE FOLLOWING STAGES OF WORK AND SUCH APPROVAL MUST BE OBTAINED BEFORE SUBSEQUENT STAGES OF WORK MAY BE COMMENCED. ADDITIONALLY, THE INSPECTOR SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF ANY OF THE FOLLOWING STAGES OF WORK.

ANY CONSTRUCTION OR EXCAVATION REQUIRING INSPECTION THAT IS UNDERTAKEN WITHOUT INSPECTION IS SUBJECT TO RECONSTRUCTION AND REEXCAVATION AT THE CONTRACTOR'S EXPENSE.

INSPECTION MUST BE SCHEDULED FOR THE FOLLOWING WORK:

1. COMPACTION AND PREPARATION OF EMBANKMENTS, EXCAVATIONS, AND SUBGRADE.
2. CONSTRUCTION OF FORMS FOR ALL CONCRETE STRUCTURES, INCLUDING CURBS, GUTTERS, AND SIDEWALKS.
3. EXCAVATION FOR STORM DRAINS AND CULVERTS.
4. PLACING OF CONCRETE IN STRUCTURES, INCLUDING CURBS, GUTTERS AND SIDEWALKS.
5. PLACING OF STORM DRAINS AND CULVERT PIPES.
6. EXCAVATION AND BACKFILL FOR STRUCTURES AND PIPES AND PUBLIC UTILITIES. WATER AND SEWER FACILITIES MUST BE INSPECTED BY THE COMPANY/AGENCY WITH JURISDICTION.
7. CONSTRUCTION OF ROADSIDE DITCHES AND OTHER DRAINAGE WAYS.
8. PLACING AND COMPACTING OF BASE MATERIAL. IF MORE THAN ONE COURSE OR TYPE OF BASE OR SUBBASE IS TO BE USED, APPROVAL SHALL BE NECESSARY FOR EACH COURSE AND/OR TYPE.
9. PLACING OF PAVEMENT OR SURFACING. WITHIN 48 HOURS OF PAVING, ALL WATER VALVE BOXES, CLEANOUTS AND MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO GRADE AND INSPECTED.
10. STRIPING AND SIGNING LAYOUT AND PLACEMENT.
11. FINAL CLEAN-UP.

C. DEMOLITION NOTES

1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600 AT LEAST 7 DAYS PRIOR TO START OF ANY EXCAVATION WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING UTILITIES & UNDERGROUND FEATURES PRIOR TO EXCAVATION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF LAKEPORT IMMEDIATELY.
3. LIMITS SHOWN ON THIS PLAN WHICH DENOTE THE AREAS OF DEMOLITION OR REMOVAL ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE SITE AT THE TIME OF BIDDING TO DETERMINE ACTUAL LIMITS OF REMOVAL. ANY SEPARATION OR REMOVAL PROCEDURES WHICH ARE UNCLEAR AT THE TIME OF BIDDING SHALL BE BROUGHT TO THE ATTENTION OF THE CITY DURING THE BID PROCESS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE VARIOUS COMPANIES AND LOCAL AUTHORITIES FOR ALL UTILITIES LOCATED WITHIN THE LIMIT OF THE WORK. ANY DEMOLITION, REMOVAL, OR REPAIR TO PRIVATE FACILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE APPROPRIATE AGENCY.
5. ALL EXISTING UTILITY FEATURES, INCLUDING WATER VALVES, WATER METERS, MANHOLES, SURVEY MONUMENTS, HYDRANTS, AND OTHER UTILITIES SHALL BE PRESERVED IN PLACE DURING CONSTRUCTION UNLESS SPECIFICALLY NOTED ON THE PLANS FOR REMOVAL OR RELOCATION.
ANY DAMAGE TO SAID FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING LOCAL TENANTS, RESIDENTS, AND BUSINESS OWNERS OF IMPENDING DEMOLITION AND CONSTRUCTION OPERATIONS, AND SHALL
PROVIDE SAFE TEMPORARY ACCESS TO LOCAL BUSINESSES AND OFFICES. IN ACCORDANCE WITH THESE PLANS AND CALOSHA.
7. AREAS OF CONCRETE OR ASPHALT CONCRETE WHICH ARE SHOWN TO BE REMOVED SHALL BE SAWCUT FULL-DEPTH PRIOR TO REMOVAL. ANY ADJACENT SURFACES WHICH ARE FURTHER DAMAGED DURING DEMOLITION SHALL BE RESAWCUT AND REPLACED AT THE CONTRACTOR'S EXPENSE. WHEN REMOVING CONCRETE AGAINST EXISTING AC PAVEMENT WHICH IS TO REMAIN, SAWCUT AC PAVEMENT WITHIN 24" OF OUTERMOST EDGE OF CONCRETE TO BE REMOVED.
8. EXCAVATION SHALL BE PERFORMED USING EQUIPMENT AND METHODS WHICH DO NOT WORSEN SUBGRADE CONDITIONS. IF SUBGRADE CONDITION IS FOUND TO BE UNSTABLE OR UNSUITABLE
FOR SUPPORT DURING CONSTRUCTION, CONTRACTOR SHALL STOP WORK AND NOTIFY CITY IMMEDIATELY.
9. LANDSCAPE MATERIAL INCLUDING SHRUBS AND TREES SHALL BE REMOVED AS INDICATED ON THE PLANS. ALL OTHER LANDSCAPE MATERIAL SHALL REMAIN. DAMAGE TO EXISTING LANDSCAPE FEATURES NOT NOTED FOR REMOVAL SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY. TREE REMOVAL SHALL INCLUDE REMOVAL OF STUMP AND UNDERLYING ROOTS LOCATED WITHIN LIMIT OF SURROUNDING SAWCUT SURFACE. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO SURROUNDING FACILITIES WHICH ARE TO REMAIN.
10. ALL REMOVED MATERIAL NOT CALLED OUT FOR SALVAGE AND REUSE SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF IN A LEGAL MANNER.
11. CONTRACTOR SHALL CLEAN SURROUNDING SIDEWALK & PAVEMENT SURFACES OF ANY CONSTRUCTION DEBRIS AT THE END OF EACH WORKING DAY.
12. CONTRACTOR TO COORDINATE W/PG&E FOR REMOVAL OF EXISTING LIGHT STANDARD.
13. COORDINATE W/CITY & POST OFFICE FOR TEMPORARY RELOCATION OF MAILBOX.

D. GRADING STANDARD NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH THE CITY ENGINEER. ALL GRADING SHALL BE PERFORMED TO THE SATISFACTION OF THE CITY ENGINEER AND SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
2. ROAD SUBGRADE SHALL BE COMPACTED PER THE PROJECT SPECIFICATIONS.
3. THE ABANDONMENT OR ALTERATION OF ANY AND ALL SEPTIC SYSTEMS AND WELLS SHALL COMPLY WITH THE CITY OF LAKEPORT HEALTH DEPARTMENT PERMIT REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE DUST CONTROL MEASURES FOR THE ENTIRE CONSTRUCTION PERIOD OF THIS PROJECT TO THE SATISFACTION OF THE COUNTY AND AIR QUALITY MANAGEMENT DISTRICT AS APPLICABLE.
5. THE CONTRACTOR SHALL MAINTAIN A NEAT APPEARANCE OF THE WORK. AT THE END OF EACH WORK SHIFT (MORNING), ALL EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM THE SITE TO THE STORAGE YARD. ALL TRENCH NOT BACKFILLED SHALL BE PLATED AND PINNED IF IN THE TRAVEL WAY. ALL DISTURBED SIDEWALK SHALL BE BACKFILLED WITH COLD PATCH AND COMPACTED WITH A VIBRAPLATE OR COVERED WITH 3/4 INCH PLYWOOD WITH ALL EDGES EXPOSED TO PEDESTRIAN TRAFFIC TAPERED AS INDICATED ON THE DRAWINGS. MAINTAIN PLYWOOD DAILY UNTIL REMOVED (5 WORKING DAY MAXIMUM). SWEEP STREET AND ALL SIDEWALKS AT LEAST AT THE END OF SHIFT (MORNING) AND THROUGHOUT DAY AS NECESSARY TO PREVENT DUST OR NUISANCE. ALL TRASH SHALL BE DEPOSITED IN WASTE BIN KEPT AT CONTRACTOR YARD. CONTRACTOR SHALL ARRANGE WEEKLY PICKUP AND DISPOSAL AT HIS EXPENSE. CONTRACTOR SHALL MONITOR SITE DURING EACH DAY FOR SITE CLEANLINESS AND PUBLIC SAFETY.
6. CONTRACTOR MATERIAL QC TESTING

   CONTRACTOR SHALL PROVIDE THE FOLLOWING QC SAMPLING AND TESTING. ALL TESTING SHALL BE IN ACCORDANCE WITH CALTRANS 2010 STANDARD SPECIFICATIONS AS AMENDED HEREIN OR BY THE SPECIAL PROVISIONS:

   6.1. CLASS 2 AGGREGATE BASE
   SAMPLE FROM DELIVERY STOCKPILE. PROVIDE SPLIT SAMPLE FOR ENGINEER. TEST FIRST TRUCKLOAD AND A TRUCKLOAD WITHIN LAST 1/2 OF PROJECT AS DETERMINED BY THE ENGINEER (2 SAMPLES AND TESTS MINIMUM). TEST FOR GRADATION AND SAND EQUIVALENT. IF EITHER TEST FAILS, TEST R-VALUE. FOR TRENCH BACKFILL, TEST COMPACTION AT THE FREQUENCY OF 1 TEST LOCATION FOR EACH 100 FEET OF TRENCH PER EACH 2 FOOT OF LIFT. REPORT RESULTS TO ENGINEER WITHIN 24 HOURS.

   6.2. CONTROLLED LOW STRENGTH MATERIAL (CLSM)
   SAMPLE CLSM FROM MIDDLE THIRD OF LOAD. TAKE 5 SIX INCH CYLINDERS FOR EACH SAMPLE. PROVIDE 2 TO THE ENGINEER DELIVERED TO THE CORPORATION YARD THE DAY AFTER CASTING. SAMPLE ON THE FIRST DELIVERY AND THREE SUBSEQUENT TIMES AT TIMES INDICATED BY THE ENGINEER. HAVE PERSONNEL, EQUIPMENT AND MATERIALS AVAILABLE TO CAST CYLINDERS EACH TIME CLSM USED. TEST ONE SAMPLE AT 7 DAYS AND 2 SAMPLES AT 28 DAYS. REPORT RESULTS WITHIN 2 DAYS OF TESTING. REMINDER: CLSM HAS BOTH MINIMUM AND MAXIMUM COMPRESSIVE STRENGTH. USE ASTM AND ACI TEST METHODS AND PROCEDURES.

   6.3. CONCRETE
   SAMPLE CLSM FROM MIDDLE THIRD OF LOAD. TAKE 5 SIX INCH CYLINDERS FOR EACH SAMPLE. PROVIDE 2 TO THE ENGINEER DELIVERED TO THE CORPORATION YARD THE DAY AFTER CASTING. SAMPLE ON THE FIRST DELIVERY AND THREE SUBSEQUENT TIMES AT TIMES INDICATED BY THE ENGINEER. HAVE PERSONNEL, EQUIPMENT AND MATERIALS AVAILABLE TO CAST CYLINDERS EACH TIME CONCRETE USED. TEST ONE SAMPLE AT 7 DAYS AND 2 SAMPLES AT 28 DAYS. REPORT RESULTS WITHIN 2 DAYS OF TESTING.

D. GRADING STANDARD NOTES (CONT)

6.4. HOT MIX ASPHALT (HMA)
SAMPLE HMA ON THE FIRST NIGHT OF PAVING AND ONCE EACH DAY OF PAVING THEREAFTER. TAKE 16 BOX (APPROXIMATELY 4.5"X4.5"X8.5" BOXES) SAMPLES FOR THE FIRST SAMPLES AND A 8 BOX SAMPLE THEREAFTER. TEST FIRST SAMPLE FOR PRODUCTION STARTUP PROPERTIES INCLUDING ALL AGGREGATE AND MIX TESTS PER SPECIFICATIONS. TEST BOTH LEVELING COURSE AND SURFACE COURSE MIX. FOR ALL OTHER SAMPLES, TEST FOR GRADATION, SAND EQUIVALENT, BINDER CONTENT AND MAXIMUM THEORETICAL SPECIFIC GRAVITY DAILY. PROVIDE FOR GRADATION, SAND EQUIVALENT, BINDER CONTENT AND MAXIMUM THEORETICAL SPECIFIC GRAVITY A MINIMUM OF 2 HOURS PRIOR TO PAVING THE FOLLOWING DAY. FAILURE TO PROVIDE TESTING SHALL RESULT IN A CONTRACTOR CAUSED DELAY OR DEDUCTION VLUE AND POTENTIAL MATERIAL REJECTION. PROVIDE FULL TIME QUALIFIED NUCLEAR GAUGE OPERATOR TO TEST DENSITY DURING COMPACTION. PROVIDE RANDOM TESTS PER CT 375 AT THE RATE OF ONE TEST PER 50 TONS. CONTRACTOR SHALL HAVE CORING EQUIPMENT ON SITE AND PREPARED TO TAKE CORES IF REQUESTED BY ENGINEER. DRY ICE SHALL BE PROVIDED EACH NIGHT FOR COOLING FOR CORE SAMPLING. IF CORES TAKEN, CORES SHALL BE PROVIDED TO ENGINEER. A MAXIMUM OF 5 CORES MAY BE REQUESTED BY THE ENGINEER. CORE DENSITY SHALL BE USED TO DETERMINE ACCEPTANCE IF CORES TAKEN. CORES USED FOR ACCEPTANCE SHALL BE RANDOMLY LOCATED BY ENGINEER. CORE LOCATIONS SHALL BE BACKFILLED WITH HMA PRIOR TO THE END OF THE WORK SHIFT.

7. THE CONTRACTOR SHALL NOTIFY THE LAKE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT AT 263-1164 IMMEDIATELY IF HAZARDOUS WASTE OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING EXCAVATION OR GRADING OPERATIONS.
8. THE CONTRACTOR SHALL PROVIDE FOR PUBLIC CONVENIENCE AND SAFETY AS PROVIDED IN THE CALTRAN 2010 STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, THE PLANS AND CALOSHA.

   DURING WORK HOURS, THE CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN CONTROL AS OUTLINED IN APPROVED PLAN. THE CONTRACTOR SHALL EMPLOY, TRAIN AND HAVE ON SITE A PERSON DESIGNATED FOR "PUBLIC SAFETY" (PSP). THIS PERSON (PSP) SHALL HAVE NO OTHER DUTIES THAN TO INSTALL, MAINTAIN AND REMOVE TRAFFIC AND PEDESTRIAN CONTROL FEATURES. PRIOR TO INSTALLATION, A DETAILED TRAFFIC PLAN SUBMITTAL IS REQUIRED. DURING WORK, THE PSP SHALL CONTINUOUSLY MONITOR THE SITE AND MAKE ADJUSTMENTS AS NECESSARY; INTERACT WITH BUSINESSES WHICH REMAIN OPEN DURING WORK HOURS, ASSIST PEDESTRIANS SAFELY THROUGH THE WORK AREA. THE DESIGNATED PSP SHALL WEAR A REFLECTIVE VEST PER OSHA REQUIREMENTS WITH BOTH THE CONTRACTORS NAME AND "PUBLIC SAFETY" PRINTED BOLDLY ON THE BACK OF THE VEST AND/OR COAT AND A NAME TAG WITH FIRST AND LAST NAME ON THE RIGHT FRONT SIDE OF THE VEST/OR COAT.

   MONDAY THROUGH SATURDAY, DURING DAYTIME HOURS OF 8:00 AM TO 6:00 PM, CONTRACTOR SHALL HAVE A PERSON DESIGNATED AS "PROJECT COORDINATOR" AVAILABLE ON SITE TO MAINTAIN PUBLIC SAFETY AND COMMUNICATE WITH CITY STAFF AND BUSINESS OWNERS REGARDING THE PROGRESS OF THE WORK. THIS PERSON'S 24 HOUR CELL NUMBER SHALL BE PROVIDED TO EACH BUSINESS OWNER AT THE START OF THE PROJECT AND ON ANY COMMUNICATIONS LITERATURE REGARDING THE PROJECT. THE DESIGNATED "PROJECT COORDINATOR" SHALL WEAR A REFLECTIVE VEST PER OSHA REQUIREMENTS WITH BOTH THE CONTRACTORS NAME AND "PROJECT COORDINATOR" PRINTED BOLDLY ON THE BACK OF THE VEST AND/OR COAT AND A NAME TAG WITH FIRST AND LAST NAME ON THE RIGHT FRONT SIDE OF THE VEST/OR COAT.

   EACH BUSINESS SHALL BE PROVIDED ACCESS TO THE BUSINESS ENTRANCE BY 8 AM EACH MORNING AT THE LATEST. THE ACCESS SHALL EITHER BE VIA THE EXISTING SIDEWALK, COMPLETED SIDEWALK, OR TEMPORARY ACCESS RAMP PER THE APPROVED PLAN. THE ACCESSIBILITY OF EACH BUSINESS SHALL BE VERIFIED BY THE PSP or RESIDENT ENGINEER.

BID SET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
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BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
MAIN STREET–MARTIN ST TO THIRD ST LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

GENERAL NOTES

CITY OF LAKEPORT

DRAWING NUMBER G-3 of 70 SHTS

Plot Date: Feb 18, 2016 at 12:26
Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; Combined.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-COV_NOTES.dwg

E. UNDERGROUND CONSTRUCTION STANDARD NOTES

1. NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS, WILL NOT BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE ENGINEER, AND THE CITY OF LAKEPORT ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.
2. CONTRACTOR SHALL NOTIFY USA PRIOR TO ANY EXCAVATION. UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
3. CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 24 HOURS BEFORE STARTING WORK.
4. CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES WITH UTILITY OWNER TO VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND LATERALS, SEWER MAINS, STORM DRAINS, GAS MAINS AND LATERALS, ELECTRICAL DISTRIBUTION LINES, TELEPHONE, CATV, AND FIBER OPTIC LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CIVIL ENGINEER IN RESPONSIBLE CHARGE OF THE WORK MAY ADJUST THE GRADE OF NEW STORM DRAIN CONSTRUCTION ACCORDINGLY WITH CONCURRENCE FROM THE CITY.
6. DISTANCES AND INVERTS ARE TO AND AT THE CENTER OF THE MANHOLES, CLEANOUTS, DROP INLETS, CATCH BASINS, AND YARD DRAINS OR AS MARKED ON THE DRAWINGS.
7. ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO PAVING.

F. DRAINAGE STANDARD NOTES

1. STORM DRAIN CONDUITS SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS SECTION 64 AND SHALL BE HDPE PLASTIC PIPE WITH SMOOTH INTERIOR WALL. MINIMUM COVER OVER PIPE SHALL BE 24", EXCEPT WHERE SLURRY CEMENT BACKFILL IS PROVIDED AS DIRECTED UNDER SECTION 19-3.02D OR WHERE CONTROLLED LOW STRENGTH MATERIAL IS PROVIDED AS DIRECTED UNDER SECTION 19-3.02F. THE MAXIMUM ALLOWABLE COVER SHALL BE LIMITED TO 11 FEET FOR ALL SIZES.
2. ALL STORM DRAIN MANHOLES SHALL BE A MINIMUM OF 48" IN DIAMETER. UNLESS OTHERWISE NOTED, MANHOLE FRAME AND COVER SHALL HAVE 24" CLEAR OPENING, AND BE HEAVY DUTY NON-ROCKING. RAISED LETTERS ON TOP OF THE COVER SHALL READ "STORM DRAIN". PIPES SHALL NOT PROTRUDE INSIDE THE MANHOLE. PIPE ENDS SHALL BE ROUNDED.
3. REINFORCED CONCRETE PIPE AND CAST-IN-PLACE STORM DRAIN PIPE SHALL BE PLACED AND BACKFILLED IN ACCORDANCE WITH STANDARD DRAWING 313.

G. SIGNING, STRIPING AND PAVEMENT MARKINGS STANDARD NOTES

1. CONTRACTOR SHALL NOTIFY THE CITY OF LAKEPORT DEPARTMENT OF PUBLIC WORKS OF CONTRACTOR'S INTENT TO PLACE ANY PAVEMENT MARKER, TRAFFIC STRIPE, PAVEMENT MARKING, AND PAVEMENT LEGEND LAYOUT LINES 10 WORKING DAYS BEFORE THE MARKER AND STRIPES WORK IS TO BE PERFORMED. ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
2. ALL LAYOUT WORK IS TO BE PERFORMED BY THE CONTRACTOR AND SHALL BE FIELD APPROVED BY THE CITY ENGINEER BEFORE THE ACTUAL WORK BEGINS.
3. PAVEMENT MARKERS AND TRAFFIC STRIPE DETAIL REFERENCE NUMBERS ARE SHOWN ON CALTRANS STANDARD PLANS A20A, A20B, A20C, A20D, A24A, A24B, A24C, A24D AND A24E.
4. ROADSIDE SIGNS SHALL BE AS SHOWN ON THE PLANS, IN ACCORDANCE WITH THE PROVISIONS OF SECTION 56, "SIGNS", OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE CITY ENGINEER.
5. SIGN PANELS SHALL CONFORM TO THE CURRENT CALTRANS SIGN PANEL SPECIFICATIONS. MINIMUM GRADE OF SIGN SHEETING MATERIAL SHALL BE TYPE 2, SUPER ENGINEERING GRADE, PER ASTM D-4956-99, OR HIGHER GRADE AS REQUIRED BY THE DIRECTOR. SIGNS USED FOR SCHOOL AREA TRAFFIC CONTROL SHALL BE RETROFLECTIVE OR ILLUMINATED, AS SHOWN ON PLANS.
6. LOCATIONS OF ALL SIGNS SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE COUNTY ENGINEER.
7. SIGN PANELS SHALL BE MOUNTED ON METAL OR WOOD POSTS AS SHOWN ON THE PLANS. POST MATERIALS AND INSTALLATION SHALL BE PER THE CALTRANS STANDARD PLANS AND SPECIFICATIONS. METAL POSTS SHALL BE WIDE-FLANGE METAL POSTS PER CALTRANS STANDARD SPECIFICATIONS. ALL FASTENERS AND ATTACHMENT HARDWARE SHALL BE GALVANIZED.
8. MARKERS AND DELINEATORS SHALL BE AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE PROVISIONS OF SECTION 82, "MARKERS AND DELINEATORS" OF THE CALTRANS STANDARD SPECIFICATIONS, AS DIRECTED BY THE CITY ENGINEER.
9. LOCATION OF ALL MARKERS AND DELINEATORS SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE CITY ENGINEER.
10. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS, IN ACCORDANCE WITH THE PROVISIONS OF SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS" OF THE CALTRANS STANDARD SPECIFICATIONS AND AS DIRECTED BY THE CITY ENGINEER.
11. ALL PAVEMENT MARKINGS, INCLUDING STOPBARS, EDGELINES, CENTERLINES, AND ALL CHANNELING LINES SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS. PAINT MAY BE USED FOR SHORT SECTIONS OF STRIPING AS APPROVED BY THE CITY ENGINEER.
12. THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL CONFORM TO THE PROVISIONS OF SECTION 84-2, "THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS" OF THE CALTRANS STANDARD SPECIFICATIONS.
13. THERMOPLASTIC MATERIAL SHALL BE APPLIED AT A MINIMUM THICKNESS OF 0.125 INCH.
14. PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 85, "PAVEMENT MARKERS" OF THE CALTRANS STANDARD SPECIFICATIONS.
15. EXISTING PAINTED/THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS WHICH CONFLICT WITH THE NEW TRAFFIC STRIPING AND PAVEMENT MARKING PLANS SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 15-2, REMOVAL METHODS, OF THE CALTRANS STANDARD SPECIFICATIONS.
16. EXISTING RAISED PAVEMENT MARKERS WHICH CONFLICT WITH THE NEW TRAFFIC STRIPING AND PAVEMENT MARKING PLAN SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 15-2, REMOVAL METHODS, OF THE CALTRANS STANDARD SPECIFIATIONS.

BID SET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
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BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
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FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS - PHASE II
MAIN STREET-MARTIN ST TO THIRD ST LAKEPORT, CA.

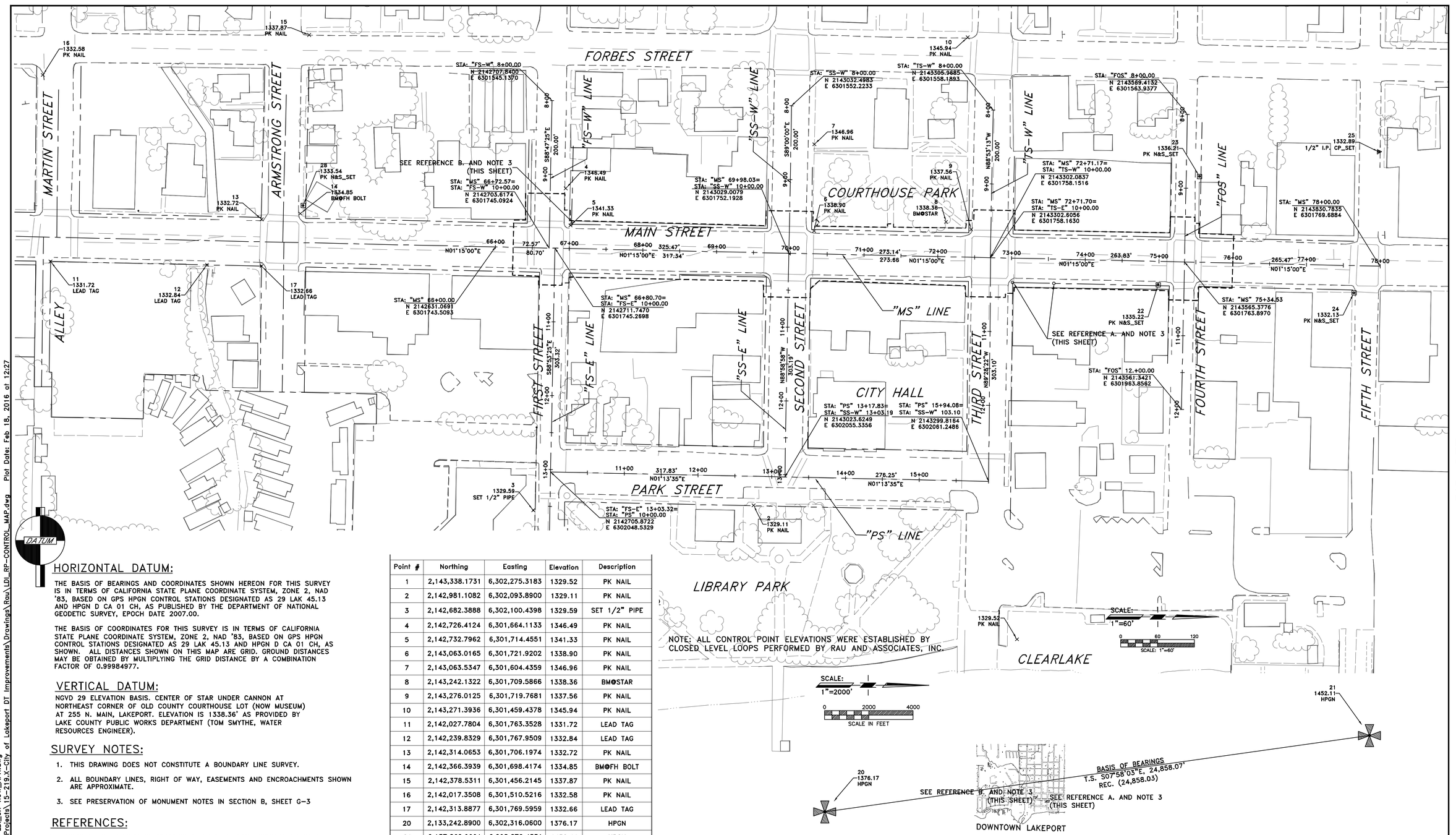
SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

GENERAL NOTES

CITY OF LAKEPORT

DRAWING NUMBER G-4 of 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; Combined.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-COV_NOTES.dwg Plot Date: Feb 18, 2016 at 12:26



DATUM

HORIZONTAL DATUM:

THE BASIS OF BEARINGS AND COORDINATES SHOWN HEREON FOR THIS SURVEY IS IN TERMS OF CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 2, NAD '83, BASED ON GPS HPGN CONTROL STATIONS DESIGNATED AS 29 LAK 45.13 AND HPGN D CA 01 CH, AS PUBLISHED BY THE DEPARTMENT OF NATIONAL GEODETIC SURVEY, EPOCH DATE 2007.00.

THE BASIS OF COORDINATES FOR THIS SURVEY IS IN TERMS OF CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 2, NAD '83, BASED ON GPS HPGN CONTROL STATIONS DESIGNATED AS 29 LAK 45.13 AND HPGN D CA 01 CH, AS SHOWN. ALL DISTANCES SHOWN ON THIS MAP ARE GRID. GROUND DISTANCES MAY BE OBTAINED BY MULTIPLYING THE GRID DISTANCE BY A COMBINATION FACTOR OF 0.99984977.

VERTICAL DATUM:

NGVD 29 ELEVATION BASIS. CENTER OF STAR UNDER CANNON AT NORTHEAST CORNER OF OLD COUNTY COURTHOUSE LOT (NOW MUSEUM) AT 255 N. MAIN, LAKEPORT. ELEVATION IS 1338.36' AS PROVIDED BY LAKE COUNTY PUBLIC WORKS DEPARTMENT (TOM SMYTHE, WATER RESOURCES ENGINEER).

SURVEY NOTES:

1. THIS DRAWING DOES NOT CONSTITUTE A BOUNDARY LINE SURVEY.
2. ALL BOUNDARY LINES, RIGHT OF WAY, EASEMENTS AND ENCROACHMENTS SHOWN ARE APPROXIMATE.
3. SEE PRESERVATION OF MONUMENT NOTES IN SECTION B, SHEET G-3

REFERENCES:

A. BOOK 93 OF RECORD OF SURVEYS AT PAGE 47 LAKE COUNTY RECORDS
B. BOOK 12 OF RECORD OF SURVEYS AT PAGE 7 LAKE COUNTY RECORDS
BOOK 85 OF RECORD OF SURVEYS AT PAGES 3 & 4 LAKE COUNTY RECORDS
BOOK 1 OF RECORD OF SURVEYS AT PAGE 55B LAKE COUNTY RECORDS
BOOK 12 OF RECORD OF SURVEYS AT PAGE 7 LAKE COUNTY RECORDS
BOOK 6 OF PARCEL MAPS AT PAGE 28 LAKE COUNTY RECORDS
BOOK 77 OF RECORD OF SURVEYS AT PAGE 34 LAKE COUNTY RECORDS
BOOK 67 OF RECORD OF SURVEYS AT PAGE 39 LAKE COUNTY RECORDS
BOOK 68 OF RECORD OF SURVEYS AT PAGE 28 LAKE COUNTY RECORDS

Point #	Northing	Easting	Elevation	Description
1	2,143,338.1731	6,302,275.3183	1329.52	PK NAIL
2	2,142,981.1082	6,302,093.8900	1329.11	PK NAIL
3	2,142,682.3888	6,302,100.4398	1329.59	SET 1/2" PIPE
4	2,142,726.4124	6,301,664.1133	1346.49	PK NAIL
5	2,142,732.7962	6,301,714.4551	1341.33	PK NAIL
6	2,143,063.0165	6,301,721.9202	1338.90	PK NAIL
7	2,143,063.5347	6,301,604.4359	1346.96	PK NAIL
8	2,143,242.1322	6,301,709.5866	1338.36	BM@STAR
9	2,143,276.0125	6,301,719.7681	1337.56	PK NAIL
10	2,143,271.3936	6,301,459.4378	1345.94	PK NAIL
11	2,142,027.7804	6,301,763.3528	1331.72	LEAD TAG
12	2,142,239.8329	6,301,767.9509	1332.84	LEAD TAG
13	2,142,314.0653	6,301,706.1974	1332.72	PK NAIL
14	2,142,366.3939	6,301,698.4174	1334.85	BM@FH BOLT
15	2,142,378.5311	6,301,456.2145	1337.87	PK NAIL
16	2,142,017.3508	6,301,510.5216	1332.58	PK NAIL
17	2,142,313.8877	6,301,769.5959	1332.66	LEAD TAG
20	2,133,242.8900	6,302,316.0600	1376.17	HPGN
21	2,157,860.9991	6,298,870.4331	1452.11	HPGN
22	2,143,529.7931	6,301,794.8356	1335.22	PK N&S_SET
23	2,143,585.7833	6,301,648.1733	1336.21	PK N&S_SET
24	2,143,795.2360	6,301,805.8294	1332.13	PK N&S_SET
25	2,143,828.6795	6,301,614.5300	1332.89	1/2" I.P. CP_SET
28	2,142,370.3204	6,301,687.4833	1333.54	PK N&S_SET

NOTE: ALL CONTROL POINT ELEVATIONS WERE ESTABLISHED BY CLOSED LEVEL LOOPS PERFORMED BY RAU AND ASSOCIATES, INC.

REGISTERED PROFESSIONAL ENGINEER GEORGE C. RAU NO. 21908 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA
FEB. 18, 2016

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
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REGISTERED PROFESSIONAL ENGINEER CATHY A. McKEON NO. 51026 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	AS NOTED	APPROVED BY:	DRAWN BY: JJR/MAW
DATE:	FEB. 2016		REVIEWED BY: CAM

SURVEY CONTROL PLAN

CITY OF LAKEPORT

DRAWING NUMBER G-5 of 70 SHTS

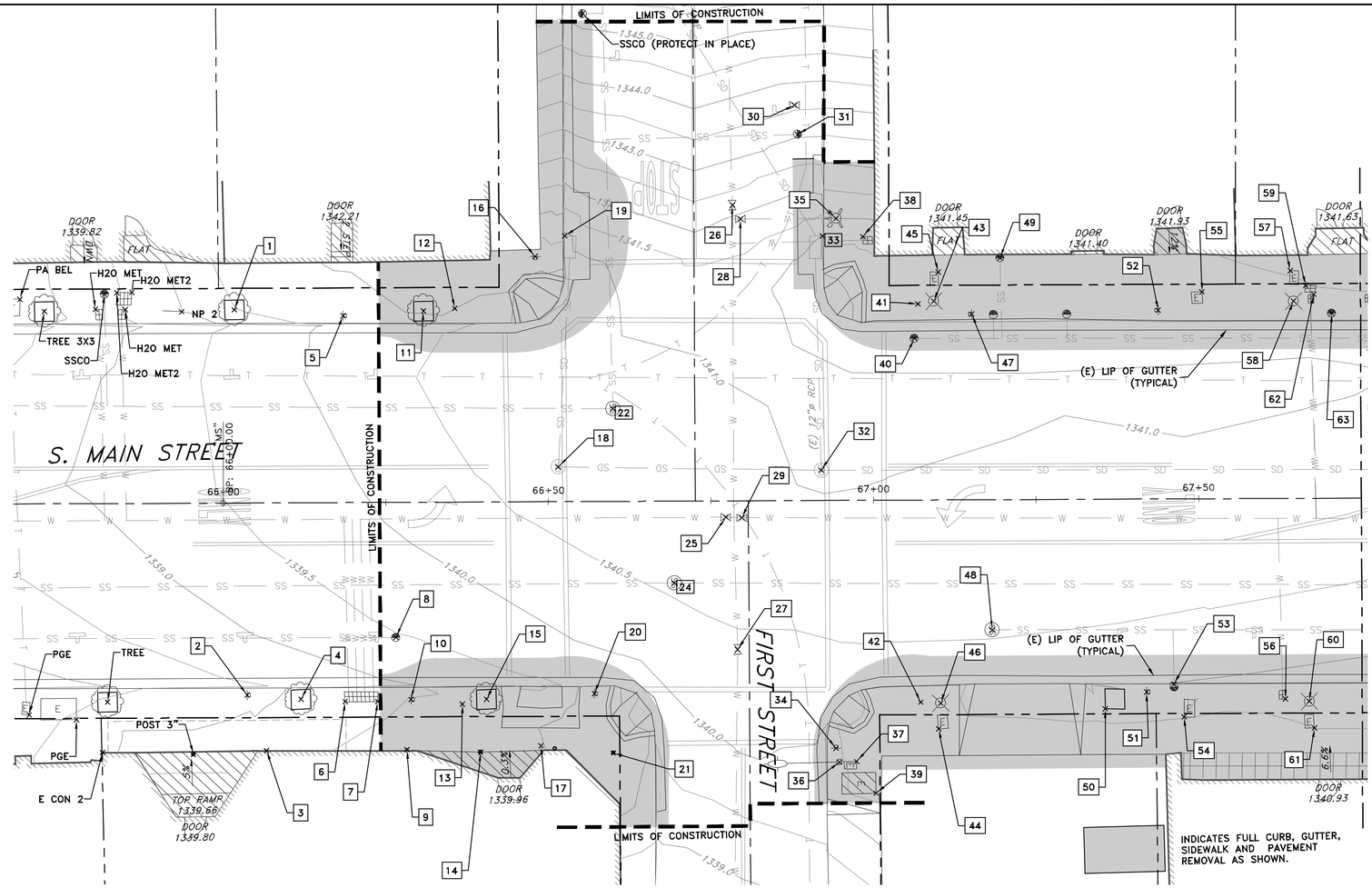
BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Rau\LDI_RP-CONTROL_MAP.dwg Plot Date: Feb 18, 2016 at 12:27

DEMOLITION NOTES:

1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.) 7 DAYS PRIOR TO START OF ANY EXCAVATION WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING UTILITIES & UNDERGROUND FEATURES PRIOR TO EXCAVATION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY IMMEDIATELY.
3. LIMITS SHOWN ON THIS PLAN WHICH DENOTE THE AREAS OF DEMOLITION OR REMOVAL ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE SITE AT THE TIME OF BIDDING TO DETERMINE ACTUAL LIMITS OF REMOVAL. ANY SEPARATION OR REMOVAL PROCEDURES WHICH ARE UNCLEAR AT THE TIME OF BIDDING SHALL BE BROUGHT TO THE ATTENTION OF THE CITY DURING THE BID PROCESS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE VARIOUS COMPANIES AND LOCAL AUTHORITIES FOR ALL UTILITIES LOCATED WITHIN THE LIMIT OF THE WORK. ANY DEMOLITION, REMOVAL, OR REPAIR TO PRIVATE FACILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE APPROPRIATE AGENCY.
5. ALL EXISTING UTILITY FEATURES, INCLUDING WATER VALVES, WATER METERS, MANHOLES, SURVEY MONUMENTS, HYDRANTS, AND OTHER UTILITIES SHALL BE PRESERVED IN PLACE DURING CONSTRUCTION UNLESS SPECIFICALLY NOTED ON THE PLANS FOR REMOVAL OR RELOCATION. ANY DAMAGE TO SAID FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING LOCAL TENANTS, RESIDENTS, AND BUSINESS OWNERS OF IMPENDING DEMOLITION AND CONSTRUCTION OPERATIONS, AND SHALL PROVIDE SAFE TEMPORARY ACCESS TO LOCAL BUSINESSES AND OFFICES.
7. AREAS OF CONCRETE OR ASPHALT CONCRETE WHICH ARE SHOWN TO BE REMOVED SHALL BE SAWCUT FULL-DEPTH PRIOR TO REMOVAL. ANY ADJACENT SURFACES WHICH ARE FURTHER DAMAGED DURING DEMOLITION SHALL BE RESAWCUT AND REPLACED AT THE CONTRACTOR'S EXPENSE.
8. WHEN REMOVING CONCRETE AGAINST EXISTING AC PAVEMENT WHICH IS TO REMAIN, SAWCUT AC PAVEMENT WITHIN 24" OF OUTERMOST EDGE OF CONCRETE TO BE REMOVED.
9. EXCAVATION SHALL BE PERFORMED USING EQUIPMENT AND METHODS WHICH DO NOT WORSEN SUBGRADE CONDITIONS. IF SUBGRADE CONDITION IS FOUND TO BE UNSTABLE OR UNSUITABLE FOR SUPPORT DURING CONSTRUCTION, CONTRACTOR SHALL STOP WORK AND NOTIFY CITY IMMEDIATELY.
10. LANDSCAPE MATERIAL INCLUDING SHRUBS AND TREES SHALL BE REMOVED AS INDICATED ON THE PLANS. ALL OTHER LANDSCAPE MATERIAL SHALL REMAIN. DAMAGE TO EXISTING LANDSCAPE FEATURES NOT NOTED FOR REMOVAL SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY.
11. TREE REMOVAL SHALL INCLUDE REMOVAL OF STUMP AND UNDERLYING ROOTS LOCATED WITHIN LIMIT OF SURROUNDING SAWCUT SURFACE. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO SURROUNDING FACILITIES WHICH ARE TO REMAIN.
12. ALL REMOVED MATERIAL NOT CALLED OUT FOR SALVAGE AND REUSE SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF IN A LEGAL MANNER.
13. CONTRACTOR SHALL CLEAN SURROUNDING SIDEWALK & PAVEMENT SURFACES OF ANY CONSTRUCTION DEBRIS AT THE END OF EACH WORKING DAY.
14. CONTRACTOR TO COORDINATE W/PG&E FOR REMOVAL OF EXISTING LIGHT STANDARD.
15. COORDINATE W/CITY & POST OFFICE FOR TEMPORARY RELOCATION OF MAILBOX.
16. DOORWAY ENTRIES WHERE SHOWN FOR RECONSTRUCTION, SHALL BE REMOVED. ALL OTHERS TO REMAIN AND SHALL BE PROTECTED. ALL ENTRIES SHALL BE PROVIDED ACCESS PER APPROVED TRAFFIC AND PEDESTRIAN CONTROL PLAN. SEE SHEET CD-1 THROUGH CD-7 FOR DETAILS.
17. ALL WATER METERS TO BE SALVAGED AND RELOCATED IN RECONSTRUCTED WATER METER BOXES.
18. ALL WATER VALVES TO BE REPLACED, WATER VALVE LIDS TO BE SALVAGED.
19. SANITARY SEWER AND WATER LINES TO BE ABANDONED ARE SHOWN ON SHEETS U-1 THROUGH U-3. ALL ASSOCIATES WATER AND SANITARY SEWER LATERALS TO BE REMOVED AND REPLACED.
20. ALL NON-CITY OWNED UTILITY BOXES SHALL BE PROTECTED IN PLACE AND RESET/RELOCATED BY OTHERS
21. RESET EXISTING FEATURE IN KIND.
22. SEE PRESERVATION OF SURVEY MONUMENT NOTES IN SECTION B, ON SHEET G-3
23. FOR PAVEMENT GRINDING AND REMOVAL OUTSIDE OF SIDEWALK REMOVAL AREAS SEE SHTS CL-1 TO CL-4

DEMO NUM	PHOTO NUM	MEMORIAL PLAQUE	IN FRONT OFF BUSINESS/ADDRESS	SHEET
43	LDI_Memorial_030	John Helms	Bella Hair Salon/101 N. Main St (NW cor 1st & Main)	D-1
46	LDI_Memorial_016	Piedmont Lumber	Lake Auto Parts parking lot (NE cor 1st & Main)	D-1
58	LDI_Memorial_029	Emelda Steveie Whipple	Team Lake Co./125 N. Main St	D-1
60	LDI_Memorial_015	Danny Rose	Lake Auto Parts/120 N. Main St	D-1
84	LDI_Memorial_017	Donated by Bill & Patti Brunetti	Bicostal Media/140 N. Main St	D-2
86	LDI_Memorial_028	Lois Saare	Main Street Pizza/145 N. Main St.	D-2
104	LDI_Memorial_018	Dr Ralph H Lewis/Dr John Paul Jones Jr	For Rent/170 N. Main St	D-2
105	LDI_Memorial_027	David J. Juchert	Molly Brennan's Bar & Grill/175 N. Main St.	D-2
124	LDI_Memorial_019	Patricia Meri/Dixie English	Abbey Road Apperal/190 N. Main St (SE cor 2nd & Main St)	D-2
127	LDI_Memorial_026	Danny Rose by Gary Rose Family	Traditions/199 N. Main St (SW cor 2nd & Main St)	D-2
160	LDI_Memorial_020	Kenneth Vincent Petro	Senior Lawyer Project/200 N. Main St (NE cor 2nd & Main)	D-2
180	LDI_Memorial_021	Charles Bruns	Lake Co. Special District/230A N. Main St	D-3
192	LDI_Memorial_022	Ed Brown/Charlotte	Morgan's Barber Shop/260 N. Main St.	D-3
207	LDI_Memorial_023	Bethsny P. Wasson/Tommy T. Wasson	Sutton Associates/290 N. Main St. (SE cor 3rd & Main St)	D-3
232	LDI_Memorial_024	Alden Jones	Café Victoria/301 N. Main St (NW cor 3rd & Main St)	D-3
234	LDI_Memorial_025	Robert "Bob" Lunas	302 N. Mian St. (NE Cor 3rd & Main St)	D-3
252	LDI_Memorial_033	The Rickabaugh Families	Campos Casual/340 N. Main St.	D-4
253	LDI_Memorial_034	Mario Curry Geoble	Game Shop/307 N. Main St.	D-4
266	LDI_Memorial_036	Melvin P. Danz	Buckhorn Club/357 N. Main St.	D-4
269	LDI_Memorial_035	Joe Priest	Maggon's Jewelry/ 360 N. Main St.	D-4
286	LDI_Memorial_038	Dick Lamkin	More Than Just a Thrift Store/395 N. Main St.	D-4
287	LDI_Memorial_037	Geoge Chapman/Clarence & Alice Knapp/LaVonne Varendorff	390 N. Main St. (S.E. Cor 4th & Main)	D-4
307	LDI_Memorial_040	The H.V. Keeling Families	401 N. Main St. (N.W. Cor 4th & Main) Plaque bad shape	D-4
308	LDI_Memorial_039	Howard King Stevenson	N.E. Corner 4th & Main St.	D-4
329	LDI_Memorial_041	Robinson Rancheria Hotel & Casino	422 N. Main St.	D-4
330	LDI_Memorial_042	Victor D. & Jane Keeling Barnes	435 N. Main St.	D-4



DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
1	TREE 3X3	PROTECT IN PLACE	-	"MS" 66+01.8	29.7' Lt	-
2	20 MIN. PARKING SIGN (32A CA)	PROTECT IN PLACE	-	"MS" 66+03.5	29.5' Rt	-
3	PIPE	PROTECT IN PLACE	-	"MS" 66+06.5	38.1' Rt	-
4	TREE	PROTECT IN PLACE	-	"MS" 66+11.8	30.2' Rt	-
5	2 HR PARKING SIGN (R32 CA)	PROTECT IN PLACE	-	"MS" 66+18.5	28.7' Lt	-
6	4-WATER METER	PROTECT IN PLACE	-	"MS" 66+18.6	30.6' Rt	-
7	4-WATER METER	PROTECT IN PLACE	-	"MS" 66+23.6	30.6' Rt	-
8	SSCO BOX AND SERVICE	RESET AT FG	U-1/CG-1	"MS" 66+26.5	20.8' Rt	-
9	HOSE BIB	PROTECT IN PLACE	-	"MS" 66+28.1	38.0' Rt	-
10	CITY OF LAKEPORT SIGN W/DIRECTIONS	REMOVE AND SALVAGE	PD-1	"MS" 66+28.7	30.3' Rt	-
11	TREE	REMOVE AND DISPOSE	-	"MS" 66+30.9	29.4' Lt	-
12	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-1	"MS" 66+35.7	29.8' Lt	-
13	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-1	"MS" 66+36.6	31.1' Rt	-
14	POLE 3"	PROTECT IN PLACE	CG-1	"MS" 66+39.4	38.5' Rt	-
15	TREE	REMOVE AND DISPOSE	-	"MS" 66+40.3	30.4' Rt	-
16	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-1	"MS" 66+48.1	37.7' Lt	-
17	2-NEWSPAPER STANDS	REMOVE AND SALVAGE		"MS" 66+48.7	37.5' Rt	-
18	STORM DRAIN MANHOLE	RESET AT FG	CL-1/SD-1	"MS" 66+51.5	5.3' Lt	-
19	DRAINAGE INLET	REMOVE AND DISPOSE	SD-1	"MS" 66+52.6	40.9' Lt	-
20	2-NO U-TURN SIGNS (R3-4)	REMOVE AND SALVAGE	PD-1	"MS" 66+56.9	29.5' Rt	-
21	4" POST	PROTECT IN PLACE	CG-1	"MS" 66+59.8	38.7' Rt	-
22	SANITARY SEWER MANHOLE	RESET AT FG	U-1	"MS" 66+60.0	14.3' Lt	-
23	NO PARKING SIGN (R26 CA)	REMOVE AND SALVAGE	PD-1	"MS" 66+65.1	67.3' Rt	-
24	SANITARY SEWER MANHOLE	RESET AT FG	U-1	"MS" 66+69.3	12.6' Rt	-
25	WATER VALVE (8")	REMOVE AND REPLACE	U-1	"MS" 66+77.2	2.5' Rt	18
26	WATER VALVE (4")	REMOVE AND REPLACE	U-1	"MS" 66+78.5	45.5' Lt	18
27	WATER VALVE (4")	REMOVE AND REPLACE	U-1	"MS" 66+79.0	22.9' Rt	18
28	WATER VALVE (4")	REMOVE AND REPLACE	U-1	"MS" 66+79.7	43.3' Lt	18
29	WATER VALVE (8")	REMOVE AND REPLACE	U-1	"MS" 66+79.7	2.6' Rt	18
30	WATER VALVE (4")	PROTECT IN PLACE	-	"MS" 66+88.1	60.8' Lt	19
31	SANITARY SEWER CLEAN-OUT AND LATERAL	PROTECT IN PLACE	-	"MS" 66+88.5	56.3' Lt	-

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
32	STORM DRAIN MANHOLE	RESET AT FG	CL-1/SD-1	"MS" 66+92.0	4.7' Lt	-
33	DRAINAGE INLET	REMOVE AND DISPOSE	SD-1	"MS" 66+92.3	40.7' Lt	-
34	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-1	"MS" 66+94.1	38.1' Rt	-
35	BM@FH BOLT	PROTECT IN PLACE	G-6	"MS" 66+94.4	43.4' Lt	-
36	STREET LIGHT STANDARD (TYPE 30)	PROTECT IN PLACE	-	"MS" 66+94.6	40.2' Rt	-
37	PGE BOX	RELOCATED/RESET BY OTHERS	CG-1	"MS" 66+97.2	40.2' Rt	20
38	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-1	"MS" 66+98.5	40.5' Lt	17, 19
39	PGE BOX	RELOCATED/RESET BY OTHERS	CG-1	"MS" 67+00.2	45.0' Rt	20
40	SSCO BOX AND SERVICE (OVAL)	RESET AT FG	U-1/CG-1	"MS" 67+06.4	24.8' Lt	19
41	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-1	"MS" 67+06.9	30.1' Lt	-
42	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-1	"MS" 67+07.1	31.1' Rt	-
43	STREET LAMP W/PLAQUE (030)	SALVAGE AND RECONSTRUCT	CG-1/E-1	"MS" 67+09.4	30.6' Lt	-
44	ELECTRIC PULL BOX	REMOVE AND RELOCATE	CG-1/E-1	"MS" 67+09.9	35.2' Rt	-
45	ELECTRIC PULL BOX	REMOVE AND RELOCATE	CG-1/E-1	"MS" 67+10.1	35.0' Lt	-
46	STREET LAMP W/PLAQUE (016)	SALVAGE AND RECONSTRUCT	CG-1/E-1	"MS" 67+10.2	31.2' Rt	-
47	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-1	"MS" 67+15.2	28.5' Lt	-
48	SANITARY SEWER MANHOLE	RESET AT FG	CL-1/U-1	"MS" 67+18.1	20.0' Rt	19
49	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CL-1/U-1	"MS" 67+19.6	37.2' Lt	19
50	PLANTER	REMOVE AND SALVAGE	-	"MS" 67+35.5	32.2' Rt	-
51	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-1	"MS" 67+41.9	29.7' Rt	-
52	CITY OF LAKEPORT SIGN W/DIRECTIONS	REMOVE AND SALVAGE	PD-1	"MS" 67+43.9	29.0' Lt	-
53	DOWNSPOUT (3"DIA.)	REMOVE AND RECONSTRUCT	CL-1	"MS" 67+46.1	28.5' Rt	-
54	ELECTRIC PULL BOX	RESET AT FG	CG-1/E-1	"MS" 67+47.6	33.5' Rt	-
55	ELECTRIC PULL BOX	RESET AT FG	CG-1/E-1	"MS" 67+50.6	31.8' Lt	-
56	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-1/U-1	"MS" 67+63.2	30.8' Rt	17, 19
57	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-1/U-1	"MS" 67+64.2	35.0' Lt	-
58	STREET LAMP W/PLAQUE (029)	SALVAGE AND RECONSTRUCT	CG-1/E-1	"MS" 67+64.7	30.3' Lt	-
59	WATER PRV AND BOX	REMOVE AND RECONSTRUCT	CG-1/U-1	"MS" 67+66.6	32.7' Lt	19
60	STREET LAMP W/PLAQUE (015)	SALVAGE AND RECONSTRUCT	CG-1/E-1	"MS" 67+66.9	31.2' Rt	-
61	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-1/E-1	"MS" 67+67.6	35.3' Rt	-
62	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-1/U-1	"MS" 67+67.8	31.4' Lt	17, 19
63	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CG-1/U-1	"MS" 67+70.6	28.5' Lt	19

EXISTING CONDITION LEGEND

BUILDING
AWNING ABOVE
ENTRY SLAB AND DOOR (TO BE REMOVED)
ENTRY SLAB AND DOOR (TO REMAIN)
BENCH
TRASH CONTAINER
PGE STREET LIGHT
STREET LIGHT W/PLAQUE
SIGN (AS INDICATED)
PLANTER BOX W/DECIDUOUS TREE
ELECTRICAL VAULT
TELECOM/ATT VAULT
WATER METER
SANITARY SEWER CLEANOUT
SANITARY SEWER MANHOLE
LIMITS OF CONSTRUCTION

STORM DRAIN MANHOLE
TELECOM/ATT MANHOLE
WATER CHECK VALVE
WATER VALVE
FIRE HYDRANT
UTILITY POLE
GUY WIRE
BOLLARD
OVERHEAD UTILITIES LINES
UNDERGROUND UTILITIES LINES
UNDERGROUND WATER
UNDERGROUND SANITARY SEWER
UNDERGROUND STORM DRAIN
INDEX CONTOUR
INTERMIDIATE CONTOUR
PAINT STRIPE
PARKING SPACE DELINEATORS
DIRECTIONAL DELINEATION AS SHOWN

0 10 20
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER GEORGE C. RAU NO. 21908 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA
FEB. 18, 2016

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER CATHY A. McKEON NO. 51026 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' | APPROVED BY: | DRAWN BY: MAW
DATE: FEB. 2016 | REVIEWED BY: CAM

EXISTING CONDITIONS/DEMOLITION PLAN
STA: 64+75 TO STA: 67+75

CITY OF LAKEPORT

DRAWING NUMBER D-1 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg
Path: S:\AutoCAD Civil 3D Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Rau\LDI_RP-EXIST_DEMO.dwg
Plot Date: Feb 18, 2016 at 12:27

NOTE:
1. SEE SHEET D-1 FOR DEMOLITION NOTES AND EXISTING CONDITIONS LEGEND.
2. LIMITS OF PAVEMENT REMOVAL SHOWN ON CL-1 TO CL-4

(SEE SHEET D-1)
MATCH LINE STA 67+75

MATCH LINE STA 70+75
(SEE SHEET D-3)

N. MAIN STREET

SECOND STREET

LIMITS OF CONSTRUCTION

(E) LIP OF GUTTER (TYPICAL)

PROTECT (E)WALL IN PLACE

INDICATES FULL DEPTH PAVEMENT REMOVAL

TOP. RAMP 1341.22

DOOR 1341.60 FLAT
DOOR 1341.98 STEP
DOOR 1341.94 STEP
DOOR 1341.71 FLAT
DOOR 1341.76 STEP
DOOR 1341.05 FLAT
DOOR 1341.28
DOOR 1340.89 S.S.
DOOR 1339.93 FLAT
DOOR 1340.20
DOOR 1339.58
DOOR 1339.62
DOOR 1339.60
DOOR 1339.70
DOOR 1339.88 STEP
DOOR 1338.56
DOOR 1338.41

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
64	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 67+76.6	31.4' Lt	18
65	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-2	"MS" 67+81.0	31.1' Rt	-
66	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-2	"MS" 67+85.6	29.7' Lt	-
67	DOWNSPOUT (4" DIA. SW DRAIN)	REMOVE AND RECONSTRUCT	CG-2	"MS" 67+88.2	37.5' Lt	-
68	PGE BOX	RELOCATED/RESET BY OTHERS	CG-2	"MS" 67+88.7	31.6' Rt	20
69	ELECTRICAL CONDUIT (1 1/4" DIA)	PROTECT IN PLACE	-	"MS" 67+89.1	39.1' Rt	-
70	DOWNSPOUT (3" DIA. SW DRAIN)	REMOVE AND RECONSTRUCT	CL-2	"MS" 67+90.0	28.6' Rt	-
71	PGE BOX	RELOCATED/RESET BY OTHERS	CG-2	"MS" 67+91.8	32.2' Lt	20
72	12"x12" VENT BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 67+92.8	36.6' Lt	-
73	PLANTER	REMOVE AND DISPOSE	-	"MS" 67+95.0	32.4' Rt	-
74	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+02.4	28.8' Lt	19
75	12"x12" VENT BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+07.2	36.5' Lt	-
76	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+10.4	31.5' Lt	17, 19
77	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+10.4	30.0' Lt	17, 19
78	WATER (1" DIA.)	PROTECT IN PLACE	-	"MS" 68+11.2	37.3' Lt	-
79	12"x12" VENT BOX	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+14.1	36.4' Lt	-
80	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+15.0	32.2' Rt	17,19
81	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+18.7	32.1' Rt	17,19
82	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+22.6	32.1' Rt	17,19
83	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-2/E-2	"MS" 68+25.4	35.4' Rt	-
84	STREET LAMP W/PLAQUE (017)	SALVAGE AND RECONSTRUCT	E-2/CG-2	"MS" 68+26.1	31.0' Rt	-
85	ELECTRICAL BOX	RESET AT FG	CG-2	"MS" 68+28.8	35.0' Lt	-
86	STREET LAMP W/PLAQUE (028)	SALVAGE AND RECONSTRUCT	E-2/CG-2	"MS" 68+29.5	30.1' Lt	-
87	12"x12" VENT BOX	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+29.7	37.1' Lt	-
88	12"x12" VENT BOX	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+38.1	36.2' Lt	-
89	NEWSPAPER STAND	REMOVE AND SALVAGE		"MS" 68+41.4	38.8' Rt	-
90	NEWSPAPER STAND	REMOVE AND SALVAGE		"MS" 68+43.1	38.3' Rt	-
91	BENCH	REMOVE AND SALVAGE		"MS" 68+46.3	37.5' Rt	-
92	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-2	"MS" 68+50.85	31.0 Rt	-
93	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+53.3	31.0' Rt	18
94	12"x12" VENT BOX	REMOVE AND REPLACE	CG-2	"MS" 68+55.5	36.1' Lt	-
95	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+58.7	29.9' Lt	17, 19
96	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 68+66.5	28.4' Lt	19
97	PGE BOX	RELOCATED/RESET BY OTHERS	CG-2	"MS" 68+70.7	34.6' Rt	20
98	12"x12" VENT BOX	REMOVE AND REPLACE	CG-2	"MS" 68+73.1	36.1' Lt	-
99	PGE BOX	RELOCATED/RESET BY OTHERS	CG-2	"MS" 68+75.9	31.5' Lt	20
100	DOWNSPOUT	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+76.1	36.7' Lt	-
101	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-2	"MS" 68+79.5	30.0 Lt	-
102	12"x12" VENT BOX	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+83.1	36.2' Lt	-
103	ELECTRICAL BOX	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+85.0	35.4' Rt	-
104	STREET LAMP W/PLAQUE (018)	SALVAGE AND RECONSTRUCT	E-2/CG-2	"MS" 68+85.3	31.2' Rt	-
105	STREET LAMP W/PLAQUE (027)	SALVAGE AND RECONSTRUCT	E-2/CG-2	"MS" 68+89.1	30.3' Lt	-
106	ELECTRICAL BOX	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+89.9	34.9' Lt	-
107	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	U-1/CG-2	"MS" 68+94.2	28.8' Lt	19
108	12"x12" GRATE	REMOVE AND RECONSTRUCT	CG-2	"MS" 68+95.7	36.2' Lt	-
109	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-2	"MS" 68+96.6	31.1' Rt	-
110	PGE BOX	RELOCATED/RESET BY OTHERS	CG-2/E-2	"MS" 68+97.8	32.2' Lt	20
111	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 69+00.4	28.1' Lt	17, 19
112	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 69+01.0	30.0' Lt	17, 19

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
113	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2U-1	"MS" 69+12.7	31.5' Rt	17, 19
114	TRASH RECEPTACLE	REMOVE AND SALVAGE	-	"MS" 69+22.0	28.7' Lt	-
115	WATER PIPE (1" DIA.)	PROTECT IN PLACE	-	"MS" 69+24.1	36.9' Lt	-
116	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-2/U-1	"MS" 69+24.6	29.9' Lt	17, 19
117	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-3/U-1	"MS" 69+25.2	29.2' Lt	17, 19
118	SSCO BOX AND SERVICE	RESET AT FG	CG-3/U-1	"MS" 69+27.4	28.8' Lt	19
119	NEWSPAPER STAND (4)	REMOVE AND SALVAGE		"MS" 69+33.3	34.8' Lt	-
120	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-2	"MS" 69+38.3	30.4' Rt	-
121	TRASH RECEPTACLE	REMOVE AND SALVAGE		"MS" 69+40.2	30.5' Rt	-
122	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-2	"MS" 69+40.4	28.6' Lt	-
123	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-3/U-1	"MS" 69+43.7	35.5' Rt	-
124	STREET LAMP W/PLAQUE (019)	SALVAGE AND RECONSTRUCT	E-2/CG-3	"MS" 69+44.0	31.0' Rt	-
125	ELECTRICAL CONDUIT (3/4" DIA)	MODIFY	E-2	"MS" 69+45.2	39.1' Rt	-
126	ELECTRICAL BOX (WALL)	PROTECT IN PLACE	-	"MS" 69+45.9	39.4' Rt	-
127	STREET LAMP W/PLAQUE (026)	SALVAGE AND RECONSTRUCT	E-2/CG-3	"MS" 69+47.1	30.3' Lt	-
128	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-3/E-2	"MS" 69+47.5	35.1' Lt	-
129	MAIL BOX	RESET AT FG	CG-3	"MS" 69+48.6	29.7' Rt	21
130	PGE VAULT	RELOCATED/RESET BY OTHERS	CG-3	"MS" 69+51.7	35.3' Rt	20
131	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-3	"MS" 69+55.4	29.6' Lt	-
132	2-NO U-TURN SIGNS (R3-4)	REMOVE AND RELOCATE	PD-2	"MS" 69+60.0	29.7' Rt	-
133	PGE VAULT	RELOCATED/RESET BY OTHERS	CG-3	"MS" 69+64.6	33.3' Rt	20
134	VENT (WALL)	PROTECT IN PLACE	-	"MS" 69+65.0	49.9' Rt	-
135	VENT (WALL)	PROTECT IN PLACE	-	"MS" 69+65.1	62.2' Rt	-
136	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-2	"MS" 69+72.3	52.8' Rt	-
137	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-2	"MS" 69+72.4	36.3' Lt	-
138	2 HR PARKING SIGN (R32 CA)	PROTECT IN PLACE	PD-2	"MS" 69+72.5	64.3' Lt	-
139	DRAINAGE INLET	REMOVE AND DISPOSE	SD-1	"MS" 69+74.2	41.2' Lt	-
140	STORM DRAIN MANHOLE	RESET AT FG	CL-2/U-1	"MS" 69+76.5	3.9' Lt	-
141	TELEPHONE MANHOLE	RESET AT FG	CL-2/U-1	"MS" 69+83.6	16.1' Lt	-
142	SSCO BOX AND SERVICE	TO BE ABANDONED	CL-2/U-1	"MS" 69+87.7	38.3' Lt	19
143	SANITARY SEWER MANHOLE	RESET AT FG	CL-2/U-1	"MS" 69+91.5	42.3' Rt	19
144	SANITARY SEWER MANHOLE	RESET AT FG	CL-2/U-1	"MS" 69+97.2	24.0' Lt	19
145	SANITARY SEWER MANHOLE	RESET AT FG	CL-2/U-1	"MS" 69+97.4	14.9' Rt	19
146	SANITARY SEWER MANHOLE	RESET AT FG	CL-2/U-1	"MS" 69+98.1	21.2' Rt	19

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
147	STREET MONUMENT	RESET AT FG	G-6	"MS" 69+98.7	1.0' Rt	22
148	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-2/U-1	"MS" 70+07.8	42.7' Lt	17, 19
149	WATER VALVE (8")	REMOVE AND RECONSTRUCT	CL-2/U-1	"MS" 70+10.8	4.5' Rt	17, 19
150	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-2/U-1	"MS" 70+11.2	37.0' Lt	17, 19
151	WATER VALVE (4")	REMOVE AND RECONSTRUCT	CL-2/U-1	"MS" 70+11.3	44.6' Rt	17, 19
152	WATER VALVE (8")	REMOVE AND RECONSTRUCT	CL-2/U-1	"MS" 70+13.3	4.4' Rt	17, 19
153	DRAINAGE INLET	REMOVE AND DISPOSE	SD-1	"MS" 70+21.6	40.9' Lt	17, 19
154	STORM DRAIN MANHOLE	RESET AT FG	CL-2	"MS" 70+21.9	4.5' Lt	-
155	2 HR PARKING SIGN (R32 CA)	PROTECT IN PLACE	PD-2	"MS" 70+22.5	64.9' Lt	-
156	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-2	"MS" 70+24.1	43.8' Rt	-
157	FIRE HYDRANT	RESET AT FG	U-2/CG-3	"MS" 70+28.6	43.0' Lt	-
158	2-NO U-TURN SIGNS (R3-4)	REMOVE AND RELOCATE	PD-2	"MS" 70+35.5	28.8' Lt	-
159	ELECTRICAL PULL BOX	RESET AT FG	CG-3/E-2	"MS" 70+37.0	35.7' Rt	-
160	STREET LAMP W/PLAQUE (020)	SALVAGE AND RECONSTRUCT	CG-3/E-2	"MS" 70+37.1	31.2' Rt	-
161	STREET LAMP (NO PLAQUE)	SALVAGE AND RECONSTRUCT	CG-3/E-2	"MS" 70+38.0	30.1' Lt	-
162	ELECTRICAL BOX	REMOVE AND RECONSTRUCT	CG-3/E-2	"MS" 70+38.7	34.2' Lt	-
163	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-3	"MS" 70+41.1	29.6' Lt	-
164	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-3	"MS" 70+42.1	31.2 Rt	-
165	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-2	"MS" 70+49.2	28.4' Lt	-
166	TRASH RECEPTACLE	REMOVE AND SALVAGE		"MS" 70+51.3	29.3' Lt	-
167	2 HR PARKING SIGN (R32 CA) W/WATCH FOR BICYCLES SIGN	REMOVE AND SALVAGE	PD-2	"MS" 70+52.7	30.2' Rt	-
168	TRASH RECEPTACLE	REMOVE AND SALVAGE		"MS" 70+54.4	31.3' Rt	-
169	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CG-3	"MS" 70+58.7	31.0' Rt	-
170	PAY PHONE	PROTECT IN PLACE	-	"MS" 70+61.3	38.0' Rt	-
171	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-3/U-1	"MS" 70+69.5	31.6' Rt	17, 19
333	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CG-3/U-1	"MS" 69+71.5	49.5' Lt	-

0 10 20
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
GEORGE C. RAU
NO. 21908
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' APPROVED BY:
DATE: FEB. 2016 DRAWN BY: MAW
REVIEWED BY: CAM

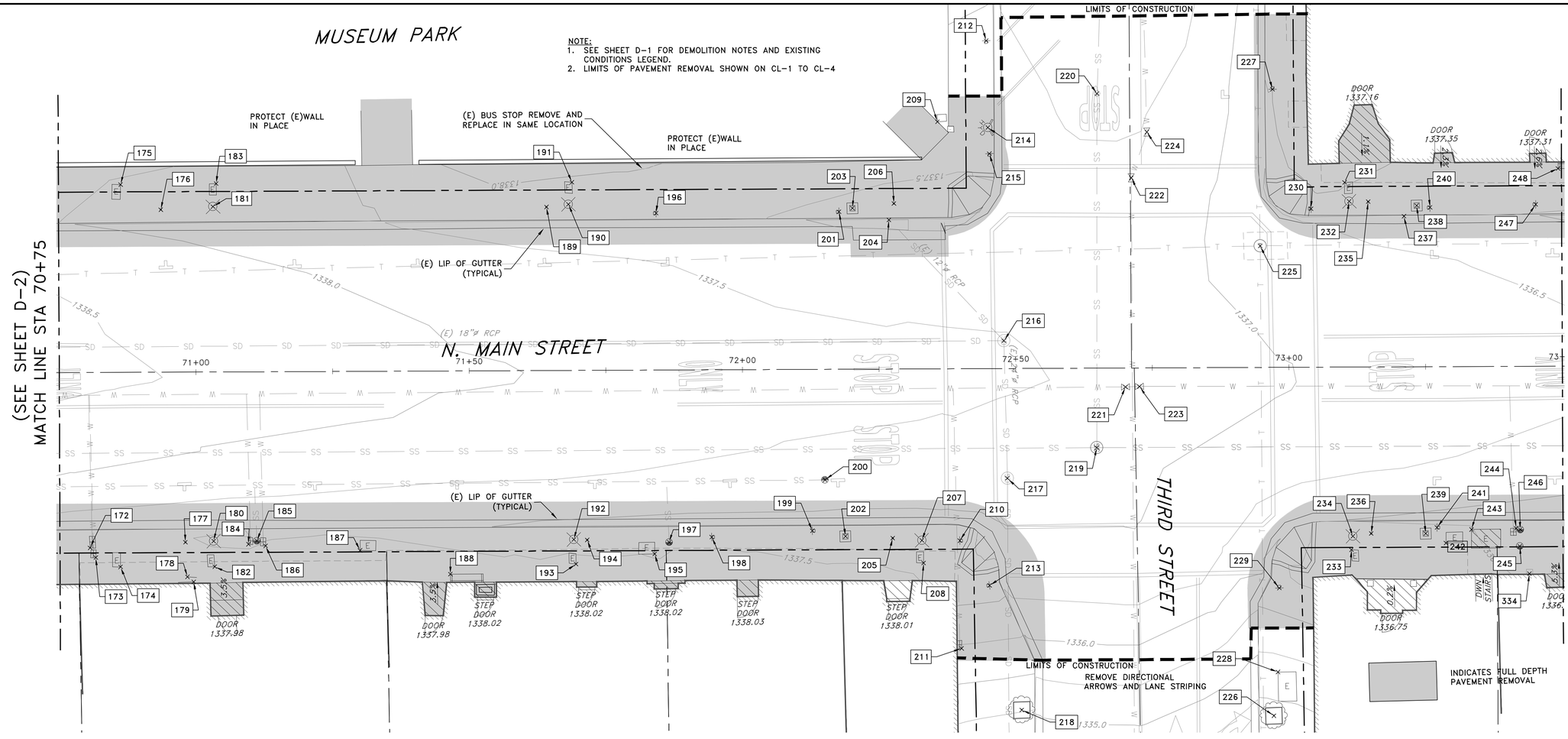
EXISTING CONDITIONS/DEMOLITION PLAN
STA: 67+75 TO STA: 70+75

CITY OF LAKEPORT

DRAWING NUMBER D-2 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Rau\LDI_RP-EXIST_DEMO.dwg Plot Date: Feb 18, 2016 at 12:27



DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
172	IRRIGATION WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-4/U-2	"MS" 70+80.5	32.0' Rt	17, 19
173	IRRIGATION WATER VALVE AND BOX	REMOVE AND RECONSTRUCT	CG-4/U-2	"MS" 70+81.5	33.8' Rt	17, 19
174	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-4/E-3	"MS" 70+86.1	35.6' Rt	-
175	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-4/E-3	"MS" 70+86.4	34.4' Lt	-
176	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-4	"MS" 70+93.7	29.7' Lt	-
177	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-4	"MS" 70+98.0	31.1' Rt	-
178	NEWSPAPER STAND	REMOVE AND SALVAGE		"MS" 70+98.3	37.4' Rt	-
179	IRRIGATION ELECTRIC METER BOX	RESET AT FG	CG-4	"MS" 70+99.4	38.4' Rt	-
180	STREET LAMP W/PLAQUE (021)	SALVAGE AND RECONSTRUCT	CG-4/E-3	"MS" 71+03.1	30.9' Rt	-
181	STREET LAMP (NO PLAQUE)	SALVAGE AND RECONSTRUCT	CG-4/E-3	"MS" 71+03.3	30.2' Lt	-
182	ELECTRIC PULL BOX	SALVAGE AND RECONSTRUCT	CG-4/E-3	"MS" 71+03.3	35.6' Rt	-
183	ELECTRIC PULL BOX	SALVAGE AND RECONSTRUCT	CG-4/E-3	"MS" 71+03.9	34.4' Lt	-
184	WATER METER AND BOX	SALVAGE AND RECONSTRUCT	CG-4	"MS" 71+09.5	31.5' Rt	17, 19
185	SANITARY SEWER CLEAN-OUT (12" DIA.)	SALVAGE AND RECONSTRUCT	CG-4	"MS" 71+11.0	30.9' Rt	19
186	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-4	"MS" 71+12.6	31.8' Rt	17, 19
187	PGE VAULT	RELOCATED/RESET BY OTHERS	CG-4	"MS" 71+29.9	32.7' Rt	20
188	BENCH	REMOVE AND SALVAGE		"MS" 71+46.4	37.2' Rt	-
189	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-4	"MS" 71+64.3	29.9' Lt	-
190	STREET LAMP (NO PLAQUE)	REMOVE AND RECONSTRUCT	CG-4/E-3	"MS" 71+68.3	30.4' Lt	-
191	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-4/E-3	"MS" 71+68.9	34.4' Lt	-
192	STREET LAMP W/PLAQUE (022)	REMOVE AND RECONSTRUCT	CG-4/E-3	"MS" 71+69.0	30.9' Rt	-
193	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-4/E-3	"MS" 71+69.4	35.4' Rt	-
194	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-4	"MS" 71+71.5	31.0' Rt	-
195	PGE VAULT	RELOCATED/RESET BY OTHERS	CG-4	"MS" 71+83.8	33.6' Rt	20
196	NO PARKING SIGN (R26 CA)	REMOVE AND SALVAGE	PD-3	"MS" 71+84.3	28.7' Lt	-
197	SANITARY SEWER CLEAN-OUT (12" DIA.)	RESET AT FG	CG-4/U-2	"MS" 71+86.5	31.5' Rt	19

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
198	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-3	"MS" 71+94.2	30.6' Rt	-
199	CITY OF LAKEPORT SIGN W/DIRECTIONS	REMOVE AND SALVAGE	PD-3	"MS" 72+12.7	29.5' Rt	-
200	SANITARY SEWER CLEAN-OUT (12" DIA.)	REMOVE AND RECONSTRUCT	CG-4/U-2	"MS" 15+15.02	20.2' Rt	19
201	BUS STOP SIGN	REMOVE AND SALVAGE	PD-3	"MS" 72+17.8	28.8' Lt	-
202	TRASH RECEPTACLE	REMOVE AND SALVAGE	-	"MS" 72+18.7	30.5' Rt	-
203	TRASH RECEPTACLE	REMOVE AND SALVAGE	-	"MS" 72+20.2	29.4' Lt	-
204	DRAINAGE INLET	REMOVE AND DISPOSE	SD-2	"MS" 72+26.9	27.3' Lt	-
205	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-5	"MS" 72+27.4	30.9' Rt	-
206	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-5	"MS" 72+27.8	30.3' Lt	-
207	STREET LAMP W/PLAQUE (023)	SALVAGE AND RECONSTRUCT	CG-5/E-3	"MS" 72+32.7	31.4' Rt	-
208	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-5/E-3	"MS" 72+33.0	35.5' Rt	-
209	CLOCK PEDESTAL	PROTECT IN PLACE	-	"MS" 72+35.7	45.2'Lt	-
210	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND RELOCATE	PD-3	"MS" 72+39.6	31.4' Rt	-
211	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-5	"MS" 72+39.9	51.2' Rt	17, 19
212	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-3	"MS" 72+44.8	59.9' Lt	-
213	2-NO U-TURN SIGNS (R3-4)	REMOVE AND SALVAGE	PD-3	"MS" 72+45.0	39.6' Rt	-
214	FIRE HYDRANT	RESET AT FG	CG-5	"MS" 72+45.1	44.1' Lt	-
215	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-3	"MS" 72+45.4	39.3' Lt	-
216	STORM DRAIN MANHOLE	RESET AT FG	SD-2/CL-3	"MS" 72+47.9	5.1' Lt	-
217	STORM DRAIN MANHOLE	RESET AT FG	SD-2/CL-3	"MS" 72+48.4	20.1' Rt	-
218	TREE	PROTECT IN PLACE	-	"MS" 72+50.8	62.5' Rt	-
219	SANITARY SEWER MANHOLE	RESET AT FG	CL-3	"MS" 72+64.8	14.5' Rt	19
220	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	U-3	"MS" 72+65.1	50.2' Lt	-
221	WATER VALVE (8")	REMOVE AND RECONSTRUCT	CL-3/U-3	"MS" 72+70.1	3.5' Rt	-
222	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-3/U-3	"MS" 72+71.3	34.8' Lt	-
223	WATER VALVE (8")	REMOVE AND RECONSTRUCT	CL-3/U-3	"MS" 72+72.6	3.4' Rt	-
224	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-3/U-3	"MS" 72+74.2	43.1' Lt	-

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
225	TELEPHONE MANHOLE	RESET AT FG	CL-3	"MS" 72+94.8	22.2' Lt	-
226	TREE	PROTECT IN PLACE	-	"MS" 72+97.0	63.7' Rt	-
227	2 HR PARKING SIGN (R32 CA)	REMOVE AND REPLACE	PD-3	"MS" 72+97.2	50.8' Lt	-
228	PGE VAULT	PROTECT IN PLACE	-	"MS" 72+97.7	55.7' Rt	20
229	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-3	"MS" 72+98.0	40.3' Rt	-
230	STOP SIGN (R1-1) W/STREET NAMES	REMOVE AND SALVAGE	PD-3	"MS" 73+04.1	29.0' Lt	-
231	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-5/E-3	"MS" 73+10.3	33.8' Lt	-
232	STREET LAMP W/PLAQUE (024)	SALVAGE AND RECONSTRUCT	CG-5/E-3	"MS" 73+11.1	30.3' Lt	-
233	ELECTRIC PULL BOX	REMOVE AND RECONSTRUCT	CG-5	"MS" 73+11.3	33.4' Rt	-
234	STREET LAMP W/PLAQUE (025)	SALVAGE AND RECONSTRUCT	CG-5/E-3	"MS" 73+11.5	30.9' Rt	-
235	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-5	"MS" 73+14.6	30.2' Lt	-
236	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-5	"MS" 73+14.9	30.5' Rt	-
237	DOWNSPOUT (2" DIA SW DRAIN)	REMOVE AND RECONSTRUCT	CG-5	"MS" 73+21.1	27.5' Lt	-
238	TRASH RECEPTACLE	REMOVE AND SALVAGE	-	"MS" 73+23.5	29.5' Lt	-
239	TRASH RECEPTACLE	REMOVE AND SALVAGE	-	"MS" 73+24.9	30.5' Rt	-
240	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-3	"MS" 73+25.9	29.1' Lt	-
241	2 HR PARKING SIGN (R32 CA)	REMOVE AND SALVAGE	PD-3	"MS" 73+26.9	29.4' Rt	-
242	PGE VAULT	RELOCATED/RESET BY OTHERS	CG-5	"MS" 73+28.6	32.3' Rt	20
243	PGE BOX	RELOCATED/RESET BY OTHERS	CG-5	"MS" 73+33.3	29.8' Rt	20
244	WATER METER AND BOX	SALVAGE AND RECONSTRUCT	CG-5/U-2	"MS" 73+41.4	29.6' Rt	17,19
245	SSCO BOX AND SERVICE	SALVAGE AND RECONSTRUCT	CG-5/U-2	"MS" 73+42.1	32.9' Rt	-
246	SSCO BOX AND SERVICE	SALVAGE AND RECONSTRUCT	CG-5/U-2	"MS" 73+42.2	29.8' Rt	-
247	CITY OF LAKEPORT SIGN W/DIRECTIONS	REMOVE AND SALVAGE	PD-3	"MS" 73+45.3	29.6' Lt	-
248	BENCH	REMOVE AND SALVAGE	-	"MS" 73+49.4	36.1' Lt	-
334	VENT BOX	REMOVE AND REPLACE	CG-5	"MS" 73+43.8	37.9' Rt	-

0 10 20
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER GEORGE C. RAU NO. 21908 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA
FEB. 18, 2016

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER CATHY A. MCKEON NO. 51026 EXP. 9-30-17 CIVIL STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2016		REVIEWED BY: CAM

EXISTING CONDITIONS/DEMOLITION PLAN
STA: 70+75 TO STA: 73+50

CITY OF LAKEPORT — DRAWING NUMBER D-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Rau\LDI_RP-EXIST_DEMO.dwg Plot Date: Feb 18, 2016 at 12:27

NOTE:
1. SEE SHEET D-1 FOR DEMOLITION NOTES AND EXISTING CONDITIONS LEGEND.
2. LIMITS OF PAVEMENT REMOVAL SHOWN ON CL-1 TO CL-4

(SEE SHEET D-3)
MATCH LINE STA 73+50

N. MAIN STREET

FOURTH STREET

LIMITS OF CONSTRUCTION

LIMITS OF CONSTRUCTION

(E) 12"-18"ø RCP

(E) 24"ø RCP

DOUBLE DOOR (SLIDER) 1336.19

PLANTER

DWN

ELEC

INDICATES FULL DEPTH PAVEMENT REMOVAL

SCALE IN FEET
0 10 20

BAR REPRESENTS THREE INCHES ON ORIGINAL

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
249	SSCO BOX AND SERVICE	RESET AT FG	CG-5/U-3	"MS" 73+55.6	30.1' Lt	19
250	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-5	"MS" 73+70.6	30.2' Lt	-
251	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-5	"MS" 73+71.6	30.4' Rt	-
252	STREET LAMP W/PLAQUE (033)	SALVAGE AND RECONSTRUCT	CG-6/E-4	"MS" 73+76.0	30.2' Rt	-
253	STREET LAMP W/PLAQUE (034)	SALVAGE AND RECONSTRUCT	CG-6/E-4	"MS" 73+76.1	30.0' Lt	-
254	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 73+76.3	33.9' Lt	-
255	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 73+76.7	34.1' Rt	-
256	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CG-6U-3	"MS" 73+85.2	29.8' Rt	19
257	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-6/U-3	"MS" 73+87.1	30.9' Rt	-
258	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 74+09.0	31.5' Rt	-
259	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 74+11.8	33.3' Rt	-
260	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-6/U-3	"MS" 74+28.6	31.9' Rt	17, 19
261	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-6/U-3	"MS" 74+28.8	30.1' Rt	17, 19
262	SIDEWALK UNDERDRAIN	REMOVE AND RECONSTRUCT	CG-6	"MS" 74+28.9	27.9' Lt	-
263	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-6/U-3	"MS" 74+29.0	32.0' Rt	17, 19
264	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-6/U-3	"MS" 74+29.9	30.1' Rt	-
265	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 74+32.2	31.3' Rt	-
266	STREET LAMP W/PLAQUE (036)	SALVAGE AND RECONSTRUCT	CG-6/E-4	"MS" 74+37.0	29.9' Lt	-
267	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 74+37.6	34.0' Lt	-
268	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-6/E-4	"MS" 74+41.1	33.8' Rt	-
269	STREET LAMP W/PLAQUE (035)	SALVAGE AND RECONSTRUCT	CG-6/E-4	"MS" 74+41.6	29.6' Rt	-
270	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-6	"MS" 74+45.7	30.2' Rt	-
271	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-6	"MS" 74+45.8	30.5' Lt	-
272	SIDEWALK UNDERDRAIN	REMOVE AND RECONSTRUCT	CL-4	"MS" 74+48.8	28.1' Lt	-
273	SIDEWALK UNDERDRAIN	REMOVE AND RECONSTRUCT	CL-4	"MS" 74+49.8	27.9' Lt	-
274	DOWN SPOUT	REMOVE AND RECONSTRUCT	CL-4	"MS" 74+50.0	37.5' Lt	-
275	SIDEWALK UNDERDRAIN	REMOVE AND RECONSTRUCT	CL-4	"MS" 74+50.3	27.9' Lt	-
276	NEWSPAPER STAND	REMOVE AND SALVAGE	-	"MS" 74+69.9	35.9' Lt	-
277	NEWSPAPER STAND	REMOVE AND SALVAGE	-	"MS" 74+72.5	36.1' Lt	-
278	SIGN	REMOVE AND SALVAGE	PD-4	"MS" 74+78.9	29.5' Lt	-
279	TRASH RECEPTICAL	REMOVE AND SALVAGE	-	"MS" 74+91.7	30.3' Rt	-
280	TRASH RECEPTICAL	REMOVE AND SALVAGE	-	"MS" 74+93.1	31.7' Lt	-
281	SIGN	REMOVE AND RELOCATE	PD-4	"MS" 74+95.2	28.8' Rt	-

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
282	PROJECT CONTROL (NAIL & SHINER)	PROTECT IN PLACE	G-6	"MS" 74+99.6	31.7' Rt	-
283	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-7	"MS" 75+00.2	30.0' Rt	-
284	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-7	"MS" 75+01.3	30.7' Lt	-
285	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-7	"MS" 75+06.8	34.3' Rt	-
286	STREET LAMP W/PLAQUE (038)	SALVAGE AND RECONSTRUCT	E-4/CG-7	"MS" 75+07.3	30.4' Lt	-
287	STREET LAMP W/PLAQUE (037)	SALVAGE AND RECONSTRUCT	E-4/CG-7	"MS" 75+07.5	29.8' Rt	-
288	FIRE HYDRANT	RESET AT FG	CG-7	"MS" 75+19.0	37.3' Lt	-
289	SIGN	REMOVE AND SALVAGE	PD-4	"MS" 75+19.4	56.0' Lt	-
290	STOP SIGN	REMOVE AND SALVAGE	PD-4	"MS" 75+19.6	37.9' Lt	-
291	ELECTRICAL PULL BOX	RESET AT FG	CL-4	"MS" 75+26.6	34.2' Rt	-
292	SSCO BOX AND SERVICE	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+30.8	58.1' Lt	-
293	SANITARY SEWER MANHOLE	RESET AT FG	CL-4	"MS" 75+31.5	14.5' Rt	-
294	WATER VALVE (8")	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+32.8	4.0' Rt	19
295	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+33.1	53.0' Lt	19
296	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+33.9	3.2' Rt	19
297	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+34.0	5.2' Rt	19
298	WATER VALVE (6")	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+35.0	36.5' Rt	19
299	WATER VALVE (8")	REMOVE AND RECONSTRUCT	CL-4	"MS" 75+35.2	4.1' Rt	19
300	STORM DRAIN MANHOLE	RESET AT FG	CL-4	"MS" 75+44.8	19.5' Lt	-
301	SIGN	REMOVE AND SALVAGE	PD-4	"MS" 75+49.8	54.9' Lt	-
302	VENT BOX	REMOVE AND REPLACE	CG-7	"MS" 75+52.9	50.6' Lt	-
303	VENT BOX	PROTECT IN PLACE	CG-7	"MS" 75+52.8	76.2' Lt	-
304	STOP SIGN	REMOVE AND SALVAGE	PD-4	"MS" 75+54.0	39.9' Rt	-
305	UTILITY POLE	PROTECT IN PLACE	CG-7	"MS" 75+55.4	29.6' Rt	-
306	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-7	"MS" 75+63.8	33.7' Rt	-
307	STREET LAMP W/PLAQUE (040)	SALVAGE AND RECONSTRUCT	CG-7/E-4	"MS" 75+64.4	30.4' Lt	-
308	STREET LAMP W/PLAQUE (039)	SALVAGE AND RECONSTRUCT	CG-7/E-4	"MS" 75+64.4	30.3' Rt	-

DEMO NO.	DESCRIPTION	DEMOLITION NOTE	REF.	STATION	OFFSET	NOTE
309	ELECTRICAL PULL BOX	REMOVE AND RECONSTRUCT	CG-7	"MS" 75+65.0	34.9' Lt	-
310	SIGN	REMOVE AND SALVAGE	PD-4	"MS" 75+67.1	29.6' Lt	-
311	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-7	"MS" 75+68.3	29.8' Rt	-
312	3/4" FLAGPOLE HOLE	REMOVE AND RELOCATE	CG-7	"MS" 75+68.5	30.8' Lt	-
313	TRASH RECEPTICAL	REMOVE AND SALVAGE		"MS" 75+73.4	30.9' Lt	-
314	GUY WIRE	PROTECT IN PLACE	CG-7	"MS" 75+76.5	30.1' Lt	-
315	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+82.2	30.4' Lt	17, 19
316	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+82.2	32.4' Lt	17, 19
317	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+83.5	33.7' Lt	17, 19
318	UTILITY POLE	PROTECT IN PLACE	CG-7	"MS" 75+84.4	30.2' Lt	-
319	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+89.6	38.3' Lt	17, 19
320	SIGN	REMOVE AND SALVAGE	PD-4	"MS" 75+96.6	28.4' Rt	-
321	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+97.5	29.7' Rt	17, 19
322	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+99.3	29.9' Rt	17, 19
323	WATER METER AND BOX	REMOVE AND RECONSTRUCT	CG-7/U-3	"MS" 75+99.3	33.5' Rt	17, 19
324	TRASH RECEPTICAL	PROTECT IN PLACE	CG-7	"MS" 76+03.1	30.4' Rt	-
325	WATER METER AND BOX	PROTECT IN PLACE	CG-7	"MS" 76+07.3	30.5' Lt	-
326	WATER METER AND BOX	PROTECT IN PLACE	CG-7	"MS" 76+07.3	34.5' Lt	-
327	WATER METER AND BOX	PROTECT IN PLACE	CG-7	"MS" 76+07.8	30.5' Lt	-
328	WATER METER AND BOX	PROTECT IN PLACE	CG-7	"MS" 76+08.6	32.6' Lt	-
329	STREET LAMP W/PLAQUE (041)	PROTECT IN PLACE	CG-7	"MS" 76+28.1	30.0' Rt	-
330	STREET LAMP W/PLAQUE (042)	PROTECT IN PLACE	CG-7	"MS" 76+28.3	30.6' Lt	-
331	ELECTRICAL PULL BOX	PROTECT IN PLACE	CG-7	"MS" 76+28.6	33.5' Rt	-
332	ELECTRICAL PULL BOX	PROTECT IN PLACE	CG-7	"MS" 76+28.7	34.9' Lt	-
335	VENT BOX	REMOVE AND REPLACE	CG-7	"MS" 73+56.14	37.9' Rt	-
336	VENT BOX	REMOVE AND REPLACE	CG-7	"MS" 74+11.3	38.0' Rt	-
337	SD INLET	REMOVE AND DISPOSE	SD-2	"MS" 75+03.5	26.5' Lt	-

REGISTERED PROFESSIONAL ENGINEER
GEORGE C. RAU
NO. 21908
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
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RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

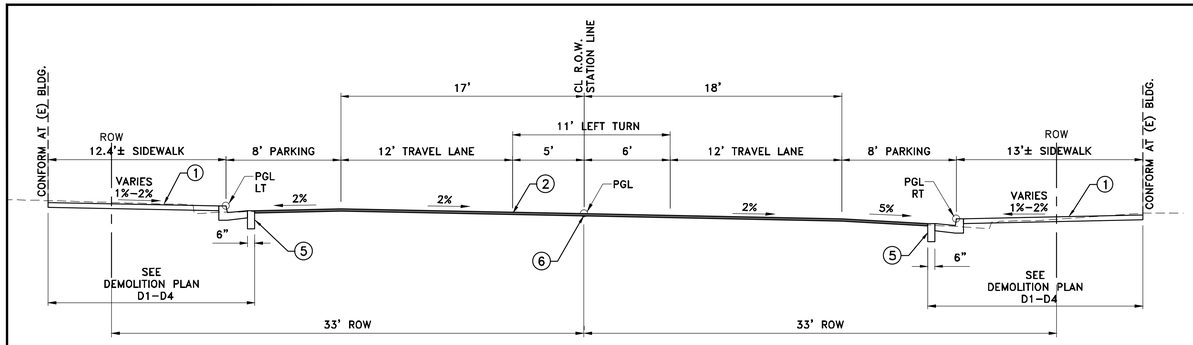
SCALE: 1"=10' APPROVED BY:
DATE: FEB. 2016 DRAWN BY: MAW
REVIEWED BY: CAM

EXISTING CONDITIONS/DEMOLITION PLAN
STA: 70+75 TO STA: 73+50

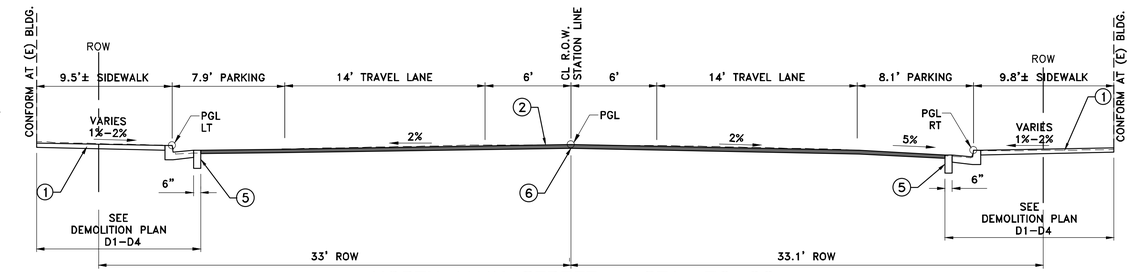
CITY OF LAKEPORT
DRAWING NUMBER D-4 of 70 SHTS

BID SET

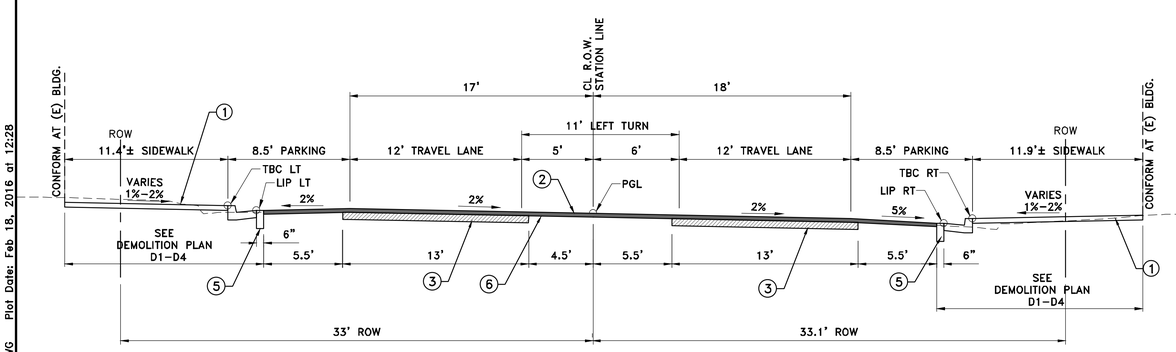
Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Rau\LDI_RP-EXIST_DEMO.dwg Plot Date: Feb 18, 2016 at 12:27



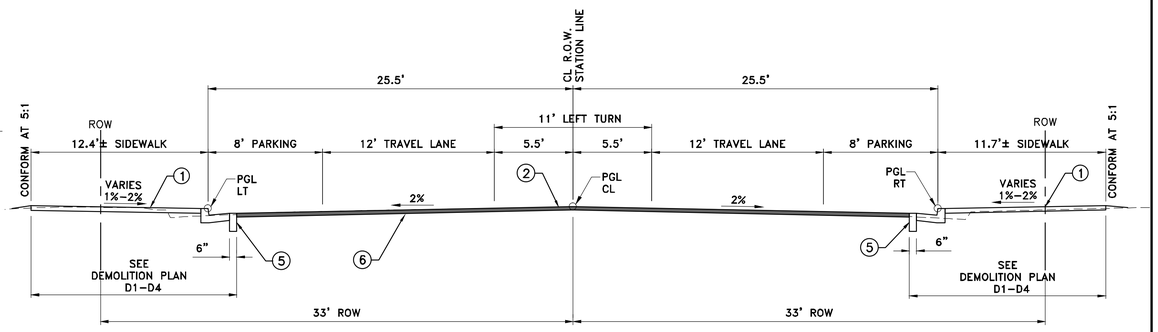
NORTH MAIN STREET – STA: 67+36.57 to 69+31.36



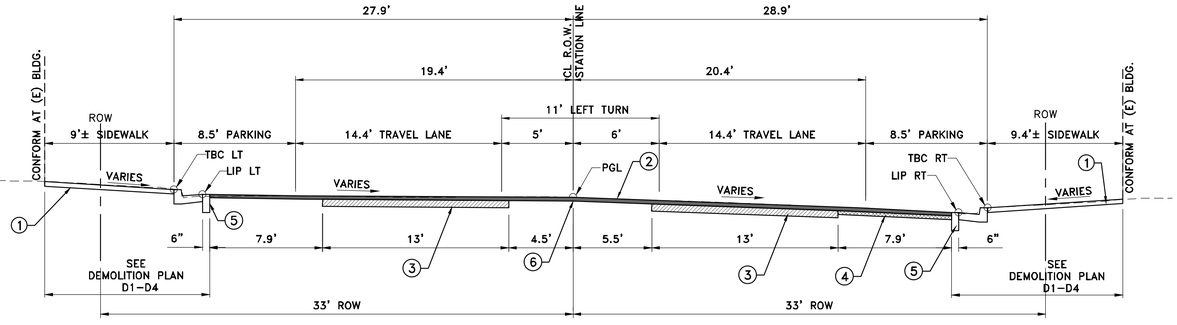
NORTH MAIN STREET – STA: 76+00
(CONFORM TO EXISTING)



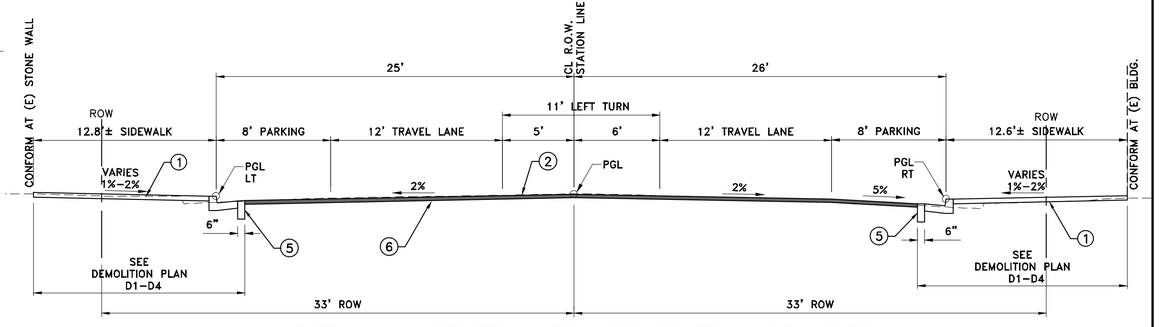
SOUTH MAIN STREET – STA: 66+32.12 to 69+50.00



NORTH MAIN STREET – STA: 73+31.5 to 74+75



SOUTH MAIN STREET – STA: 66+24.01 at CONFORM



NORTH MAIN STREET – STA: 70+66.53 to 72+10.57

KEY NOTES:

1. NEW CURB, GUTTER AND SIDEWALLK PER DETAILS SHEET CD-1 FOR SIDEWALK GRADES SEE SHEETS CG-1 TO CG-7.
2. ALL PAVEMENT SURFACES TO BE 3" BELOW P(FG) AND BACKFILLED WITH HMA. SEE SHEETS CL-1 TO CL-4.
3. REMOVE AND REPLACE ADDITIONAL 6" BELOW (P) COLD PLANE SURFACE (9" BELOW (P)FG). SEE SHEET CL-1 TO CL-4.
4. REMOVE AND REPLACE ADDITIONAL 3" BELOW (P) COLD PLANE SURFACE (6" BELOW (P)FG). SEE SHEET CL-1 TO CL-4.
5. REMOVE 6" WIDE FULL DEPTH HMA FROM (P) LIP OF GUTTER. (GUTOUTS) TO BE INCLUDED IN DEMOLITION OF CURB, GUTER AND SIDEWALK. SEE SHEETS D-1 TO D-4.
6. INSTALL PAVEMENT UNDERLAY.

PAVEMENT NOTES:

1. PAVING SHALL BE COMPLETED AS FOLLOWS:
   - GRIND TO DEPTHS SPECIFIED
   - PAVE LOW AREAS TO WITHIN 3" OF (P) FG
   - PLACE 1" LEVELING COURSE FULL PAVEMENT WIDTH.
   - PLACE GEOTEXTILE FABRIC
   - PLACE 2" FINISHED LIFT FULL PAVEMENT WIDTH.
2. GUTOUTS SHALL BE COMPLETED PRIOR TO GRINDING AND PAVED CONCURRENT WITH THE ADJACENT PAVEMENT. SEE KEYNOTE 5.
3. SEE SHEETS TS-1 TO TS-3 FOR TYPICAL FINISHED GRADE SLOPES AND WIDTHS.
4. CONCRETE PAVING IN DOORWAY ENTRIES ONLY IN SPECIFIED AREAS. SEE SHEETS CG-1 TO CG-7 AND DETAIL 2, SHEET CD-2.
5. CONFORM AT BUILDING FACE SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS 1 AND 2, SHEET CD-3.

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
S. MAIN STREET LAKEPORT, CA.

SCALE: 1"=5'	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

TYPICAL SECTIONS
SOUTH MAIN STREET AND NORTH MAIN STREET
CITY OF LAKEPORT

DRAWING NUMBER TS-1 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
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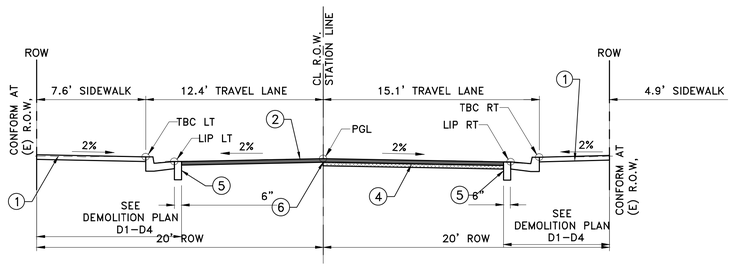
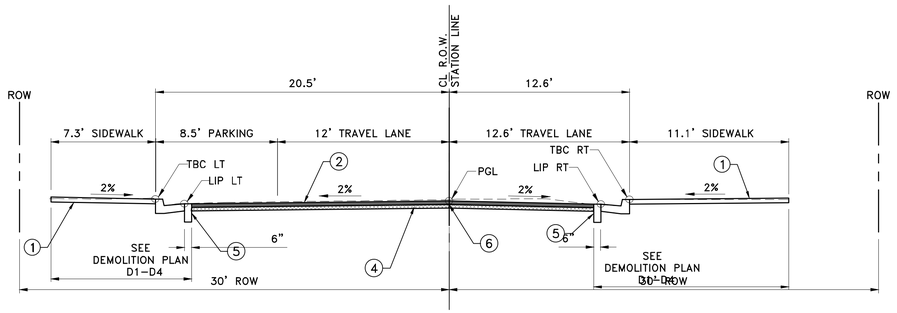
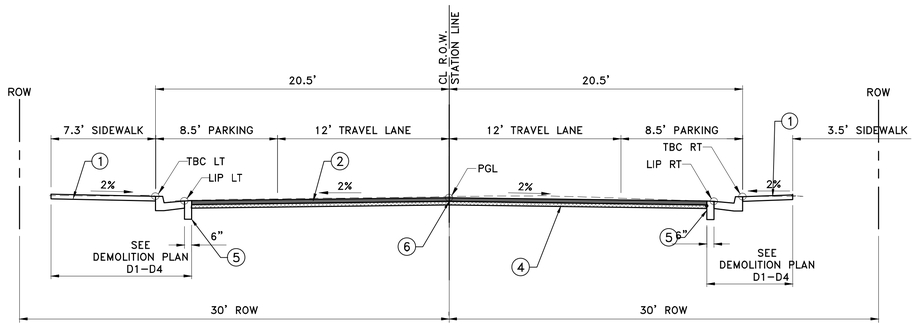


FIRST STREET–STA:"FS–E" 10+41.43 (PCR) to
STA: "FS–E" 10+50.00 (CONFORM)



FIRST STREET–STA:"FS–W" 9+54.56 to
STA: "FS–W" 9+64.50 (PCR)



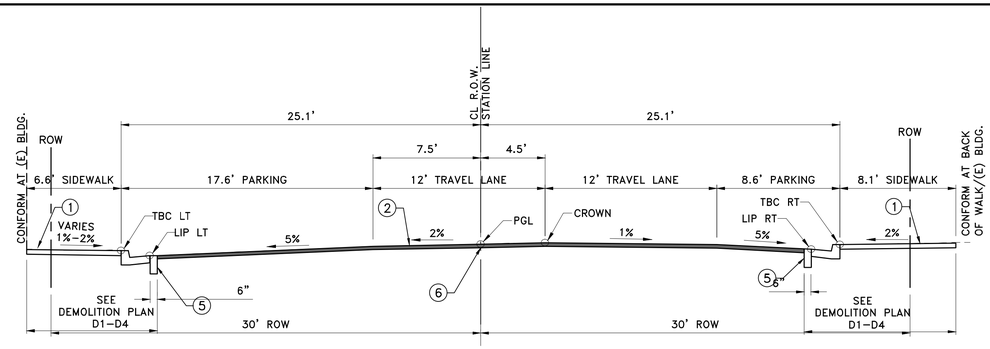
FIRST STREET–STA:"FS–W" 9+38.70 (CONFORM) to
STA: "FS–W" 9+54.56

◯ KEY NOTES:

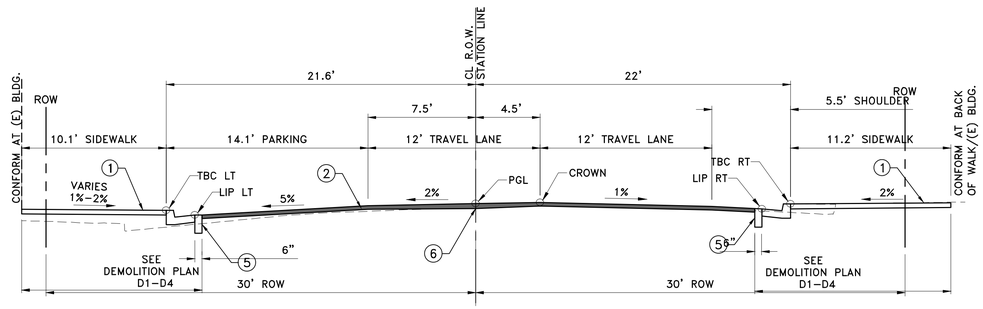
1. NEW CURB, GUTTER AND SIDEWALLK PER DETAILS SHEET CD-1 FOR SIDEWALK GRADES SEE SHEETS CG-1 TO CG-7.
2. ALL PAVEMENT SURFACES TO BE 3" BELOW P(FG) AND BACKFILLED WITH HMA. SEE SHEETS CL-1 TO CL-4.
3. REMOVE AND REPLACE ADDITIONAL 6" BELOW (P) COLD PLANE SURFACE (9" BELOW (P)FG). SEE SHEET CL-1 TO CL-4.
4. REMOVE AND REPLACE ADDITIONAL 3" BELOW (P) COLD PLANE SURFACE (6" BELOW (P)FG). SEE SHEET CL-1 TO CL-4.
5. REMOVE 6" WIDE FULL DEPTH HMA FROM (P) LIP OF GUTTER. 9GUTOUT) TO BE INCLUDED IN DEMOLITION OF CURB, GUTER AND SIDEWALK. SEE SHEETS D-1 TO D-4.
6. INSTALL PAVEMENT UNDERLAY.

NOTE:

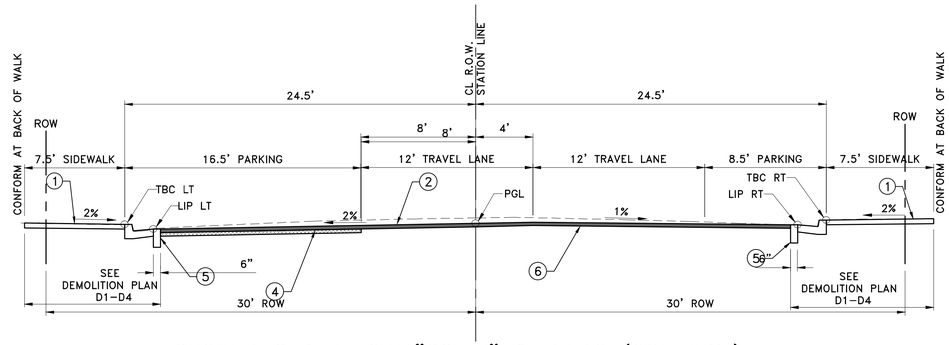
1. SEE SHEET TS-1 FOR PAVEMENT NOTES.



SECOND STREET–STA:"SS–E" 10+49.18 to
STA: "SS–E" 10+59.70 (CONFORM)



SECOND STREET–STA:"SS–E" 10+41.35 (PCR) to
STA: "SS–E" 10+49.18



SECOND STREET–STA:"SS–W" 9+45.12 (CONFORM) to
STA: "SS–W" 9+64.25 (PCR)

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17
VERIFY SCALE	
0 1/2 1 2 3	
BAR REPRESENTS THREE INCHES ON ORIGINAL	

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET — LAKEPORT, CA.

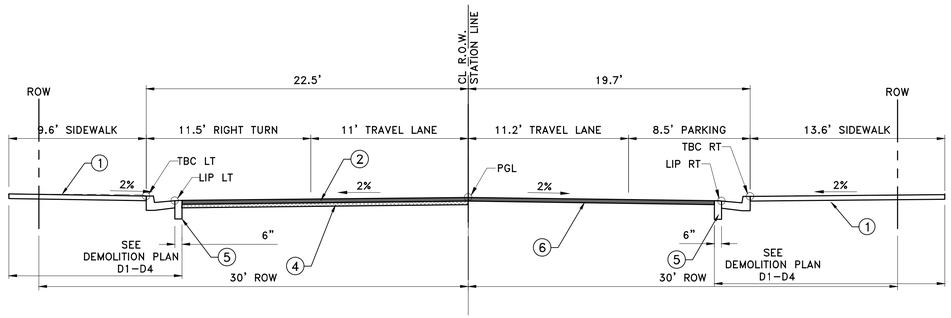
SCALE:	1"=5'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2016		REVIEWED BY: CAM

TYPICAL SECTIONS
FIRST ST. AND SECOND ST.

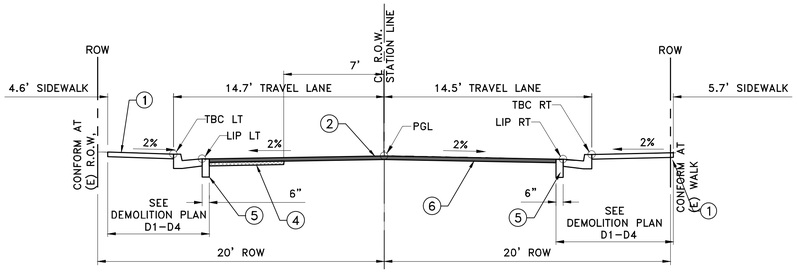
CITY OF LAKEPORT — DRAWING NUMBER TS-2 of 70 SHTS

BID SET

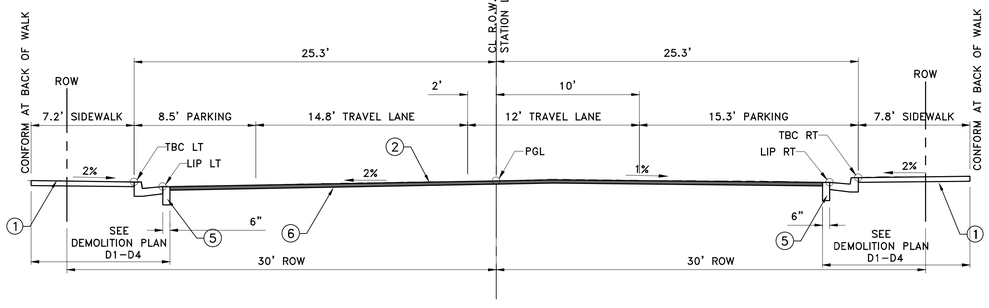
Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-TYPICAL_SECTIONS.DWG Plot Date: Feb 18, 2016 at 12:28



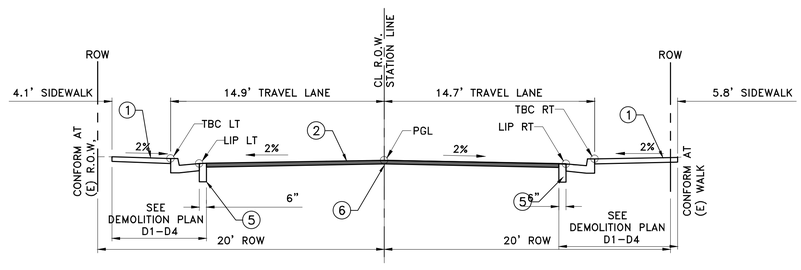
THIRD STREET–STA: "TS–E" 10+40.74 (PCR) to
STA: "TS–E" 10+53.14 (CONFORM)



FOURTH STREET–STA:"FOS–E" 10+36.04 (PCR) to
STA: "FOS–E" 10+51.82 (CONFORM)



THIRD STREET–STA:"TS–W" 9+35.34 (CONFORM) to
STA: "TS–W" 9+64.07 (PCR)



FOURTH STREET–STA:"FOS–W" 9+47.34 (CONFORM) to
STA: "FOS–W" 9+59.03 (PCR)

◯ KEY NOTES:

1. NEW CURB, GUTTER AND SIDEWALLK PER DETAILS SHEET CD–1 FOR SIDEWALK GRADES SEE SHEETS CG–1 TO CG–7.
2. ALL PAVEMENT SURFACES TO BE 3" BELOW P(FG) AND BACKFILLED WITH HMA. SEE SHEETS CL–1 TO CL–4.
3. REMOVE AND REPLACE ADDITIONAL 6" BELOW (P) COLD PLANE SURFACE (9" BELOW (P)FG). SEE SHEET CL–1 TO CL–4.
4. REMOVE AND REPLACE ADDITIONAL 3" BELOW (P) COLD PLANE SURFACE (6" BELOW (P)FG). SEE SHEET CL–1 TO CL–4.
5. REMOVE 6" WIDE FULL DEPTH HMA FROM (P) LIP OF GUTTER. (GUTOUT) TO BE INCLUDED IN DEMOLITION OF CURB, GUTER AND SIDEWALK. SEE SHEETS D–1 TO D–4.
6. INSTALL PAVEMENT UNDERLAY.

NOTE:

1. SEE SHEET TS–1 FOR PAVEMENT NOTES.

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9–30–17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9–30–17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

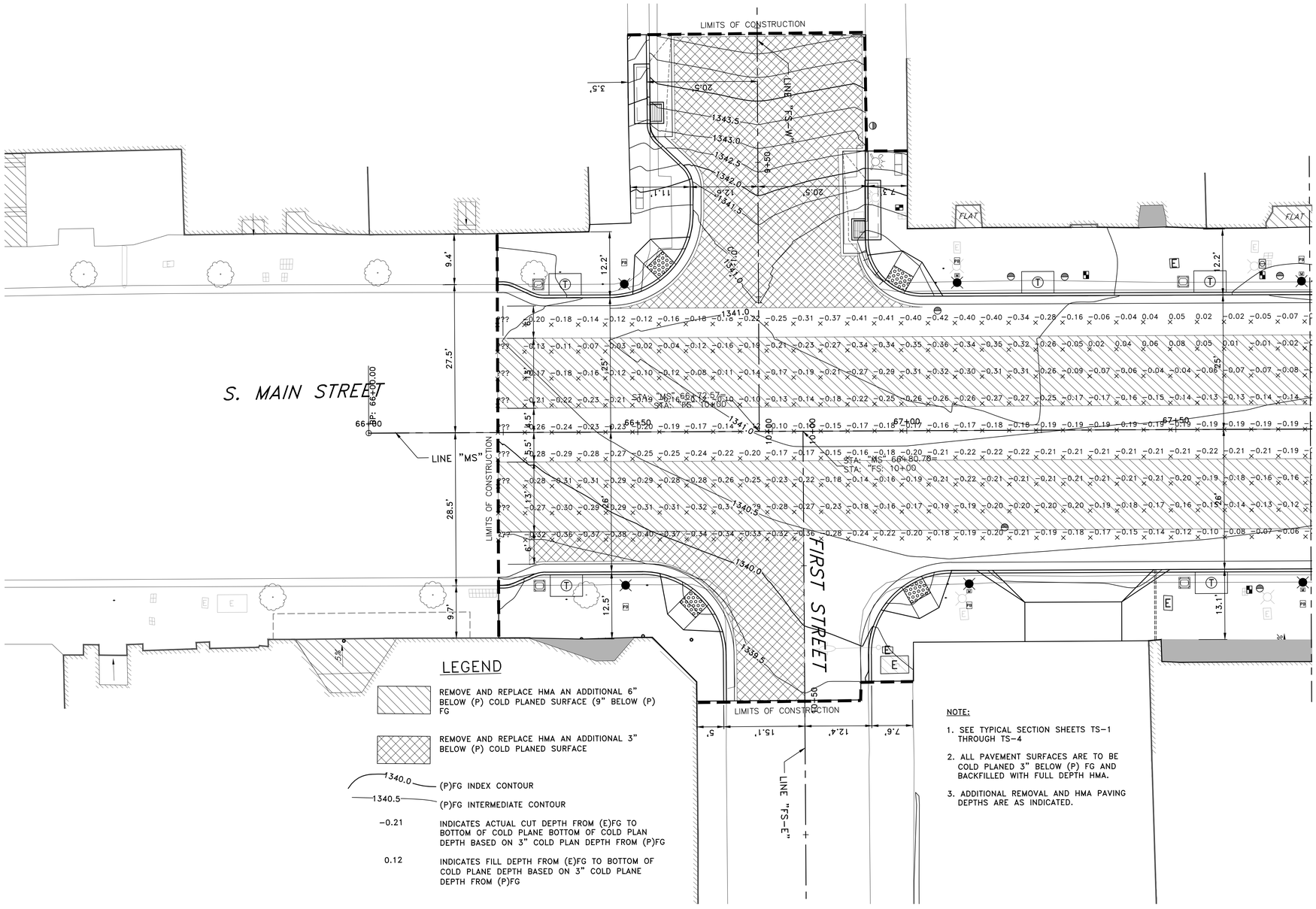
SCALE: 1"=5'	APPROVED BY:	DRAWN BY: MAW
DATE: FEB. 2016		REVIEWED BY: CAM

TYPICAL SECTIONS
THIRD ST. AND FOURTH ST.

CITY OF LAKEPORT — DRAWING NUMBER TS–3 of 70 SHTS

BID SET

Xrefs: LDI_CX–TBLOCK.dwg; LDI_CX–ROW_APN.dwg; LDI_CX–BASE_NoBulbouts.dwg
Path: S:\AutoCAD Civil 3D\Projects\15–219.X–City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP–TYPICAL_SECTIONS.DWG Plot Date: Feb 18, 2016 at 12:28



0 10 20
SCALE: HORZ. 1"=10'

BID SET

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17
VERIFY SCALE 0 1/2 1 2 3	
BAR REPRESENTS THREE INCHES ON ORIGINAL	

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
S. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2106		REVIEWED BY: CAM

PAVEMENT PLAN
STA: 64+75 TO STA: 67+75

CITY OF LAKEPORT | DRAWING NUMBER CL-1 of 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
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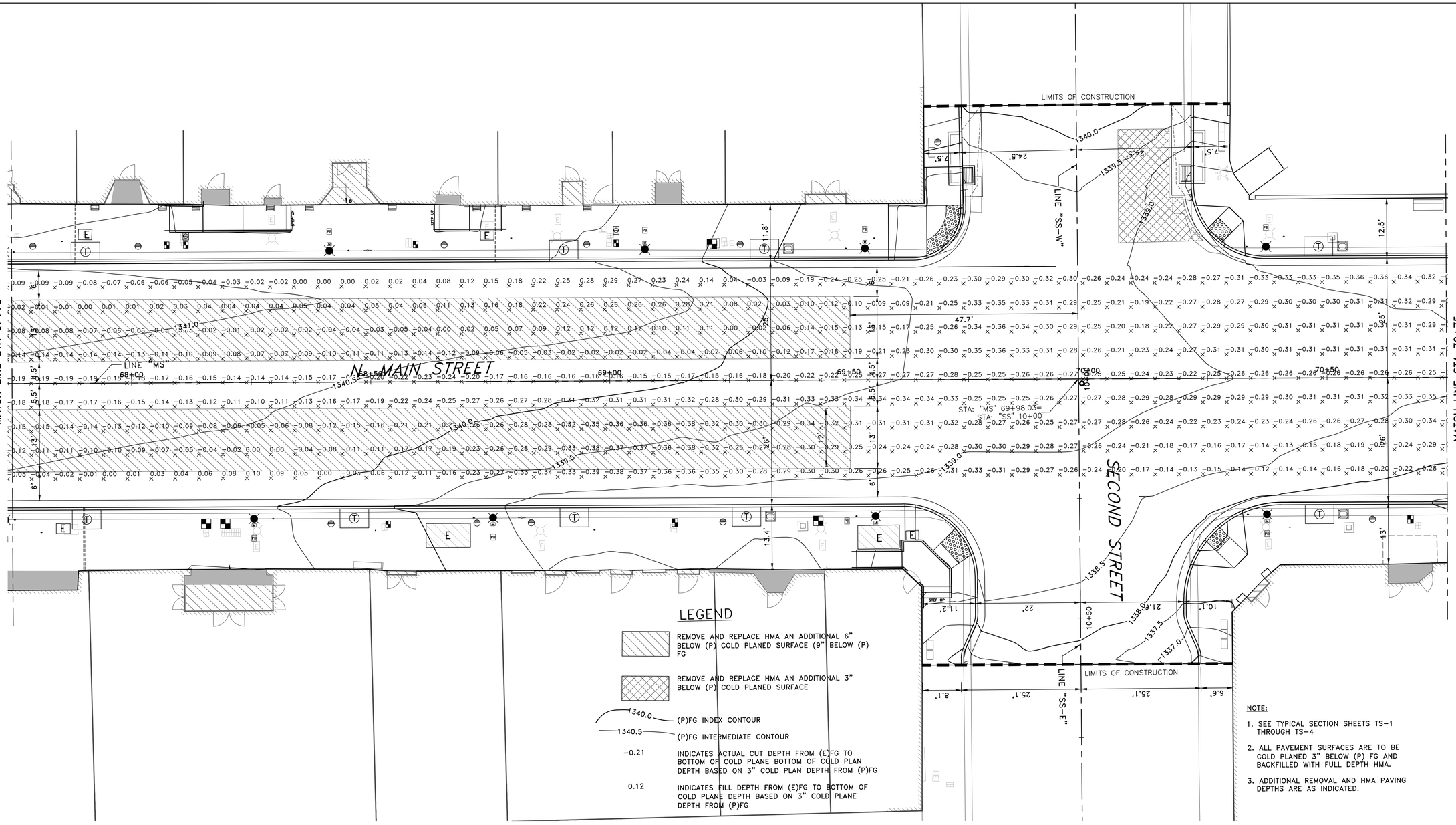

LEGEND

REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG

REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE

1340.0 — (P)FG INDEX CONTOUR

1340.5 — (P)FG INTERMEDIATE CONTOUR

-0.21 — INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG

0.12 — INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS-1 THROUGH TS-4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

BID SET

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. MCKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

PAVEMENT PLAN
STA: 67+75 TO STA: 70+75

CITY OF LAKEPORT

DRAWING NUMBER CL-2 of 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
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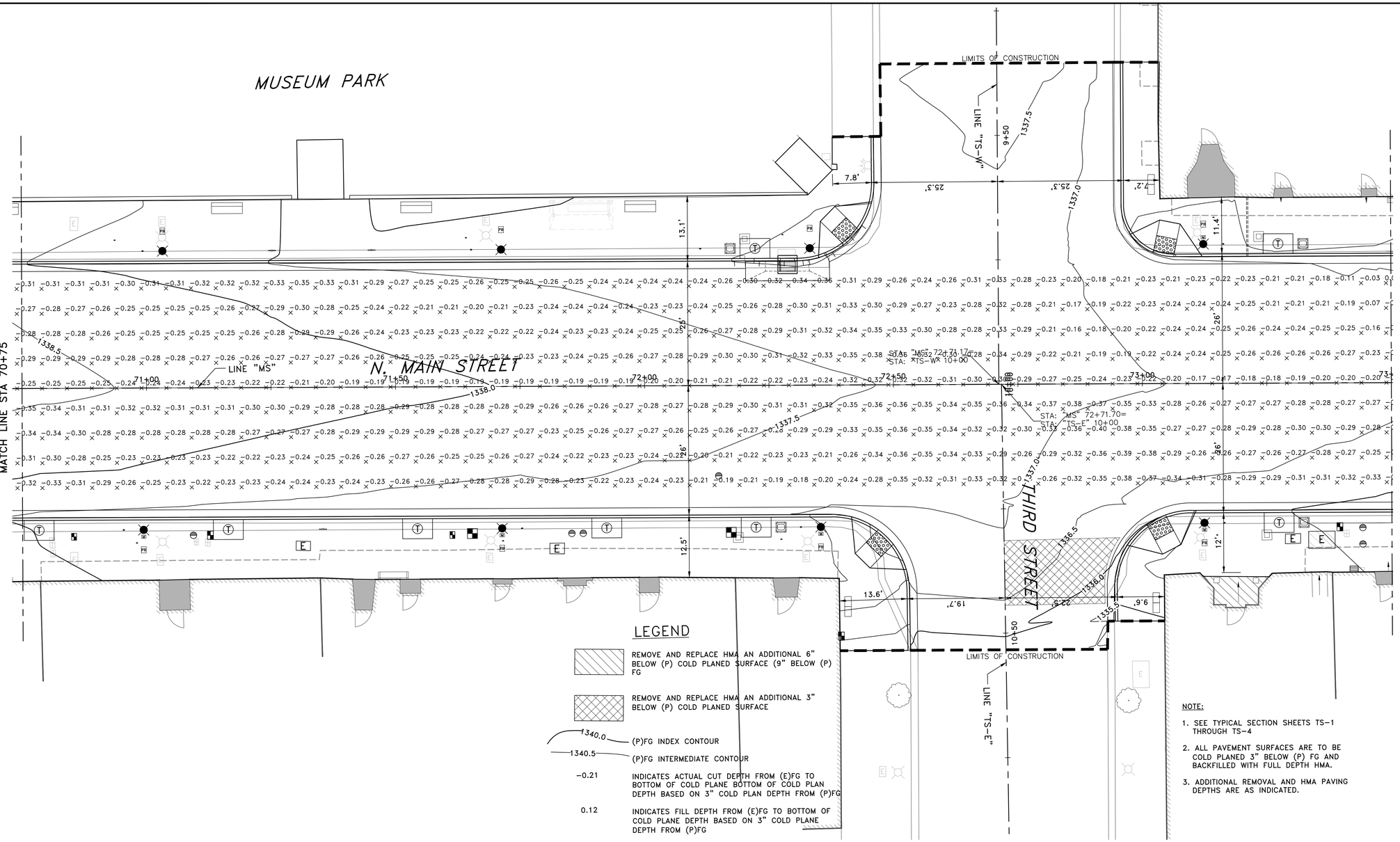

LEGEND

- REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG
- REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE
- 1340.0 — (P)FG INDEX CONTOUR
- 1340.5 — (P)FG INTERMEDIATE CONTOUR
- -0.21 — INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG
- 0.12 — INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS-1 THROUGH TS-4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

PAVEMENT PLAN
STA: 70+75 TO STA: 73+50

CITY OF LAKEPORT

DRAWING NUMBER CL-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
Path: C:\Users\Cathy McKeon\appdata\local\temp\AcPublish_11860\LDI_CP-LAYOUT_SHTS.DWG Plot Date: Feb 18, 2016 at 14:45

(SEE SHEET CL-3)
MATCH LINE STA 70+75

N. MAIN STREET

LINE "MS"

FOURTH STREET

LINE "FS"

LIMITS OF CONSTRUCTION

LIMITS OF CONSTRUCTION

STA: "MS" 75+34.53
STA: "FS" 10+08

LEGEND

REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG

REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE

1340.0 (P)FG INDEX CONTOUR

1340.5 (P)FG INTERMEDIATE CONTOUR

-0.21 INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG

0.12 INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS-1 THROUGH TS-4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2016		REVIEWED BY:	CAM

PAVEMENT PLAN
STA: 73+50 TO STA: 76+00

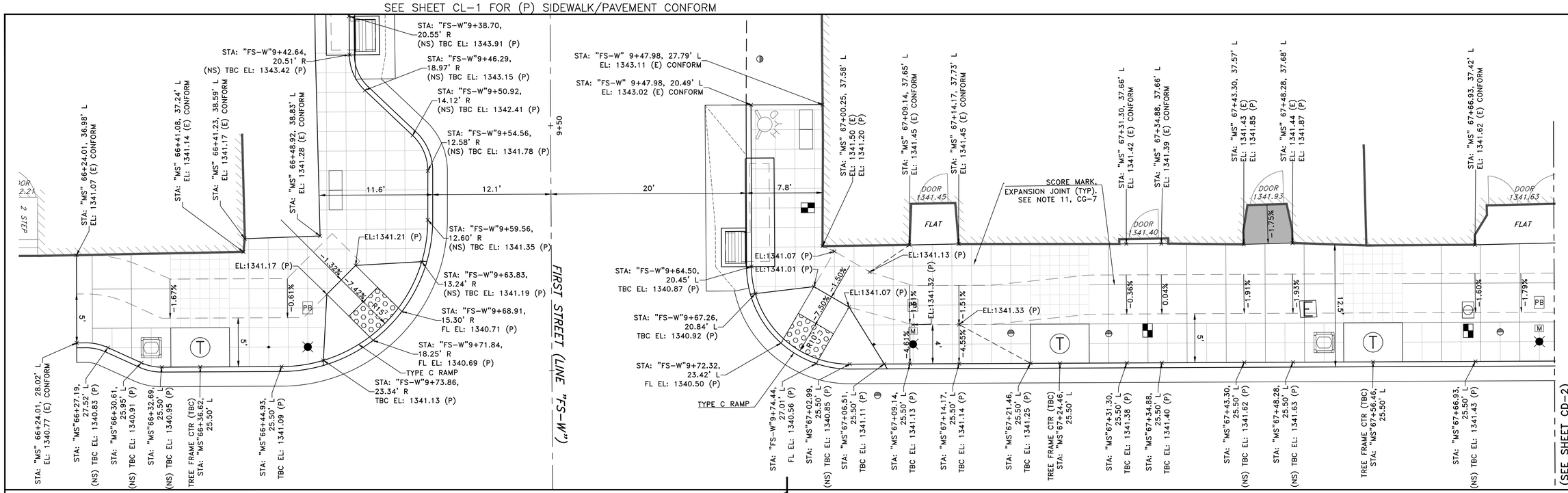
CITY OF LAKEPORT

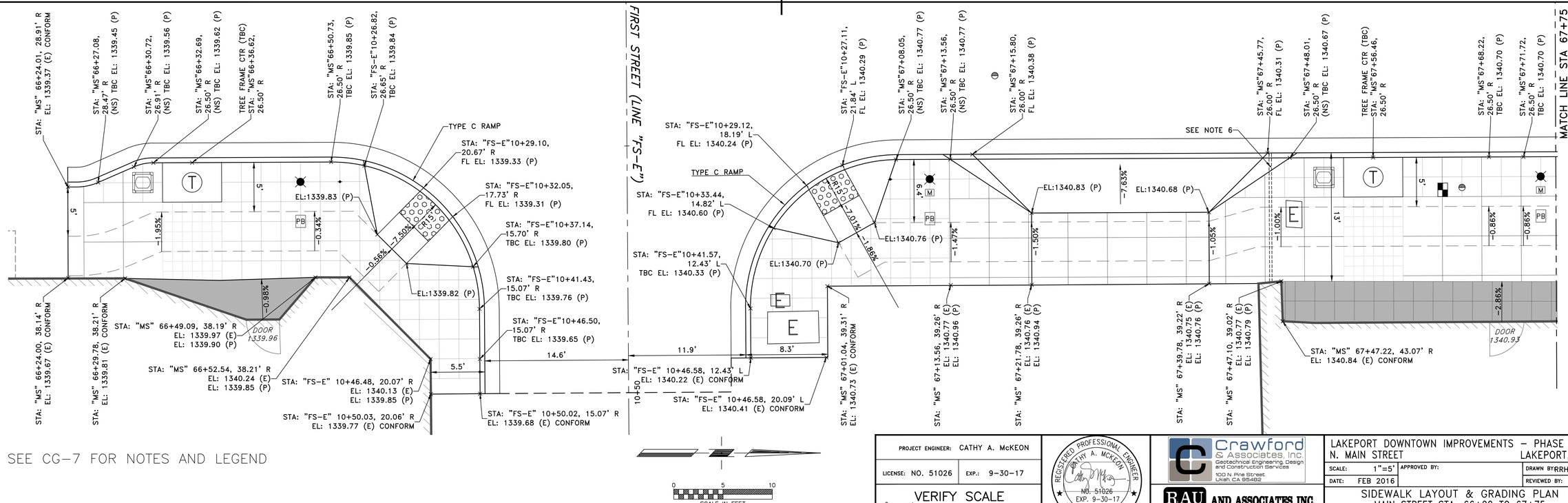
DRAWING NUMBER
CL-4 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
Path: C:\Users\Cathy McKeon\appdata\local\Temp\AcPublish_11860\LDI_GP-LAYOUT_SHTS.DWG Plot Date: Feb 18, 2016 at 14:45

SEE SHEET CL-1 FOR (P) SIDEWALK/PAVEMENT CONFORM





SEE CG-7 FOR NOTES AND LEGEND

0 5 10
SCALE IN FEET

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

SIDEWALK LAYOUT & GRADING PLAN
MAIN STREET STA: 66+22 TO 67+75

CITY OF LAKEPORT

DRAWING NUMBER CG-1 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
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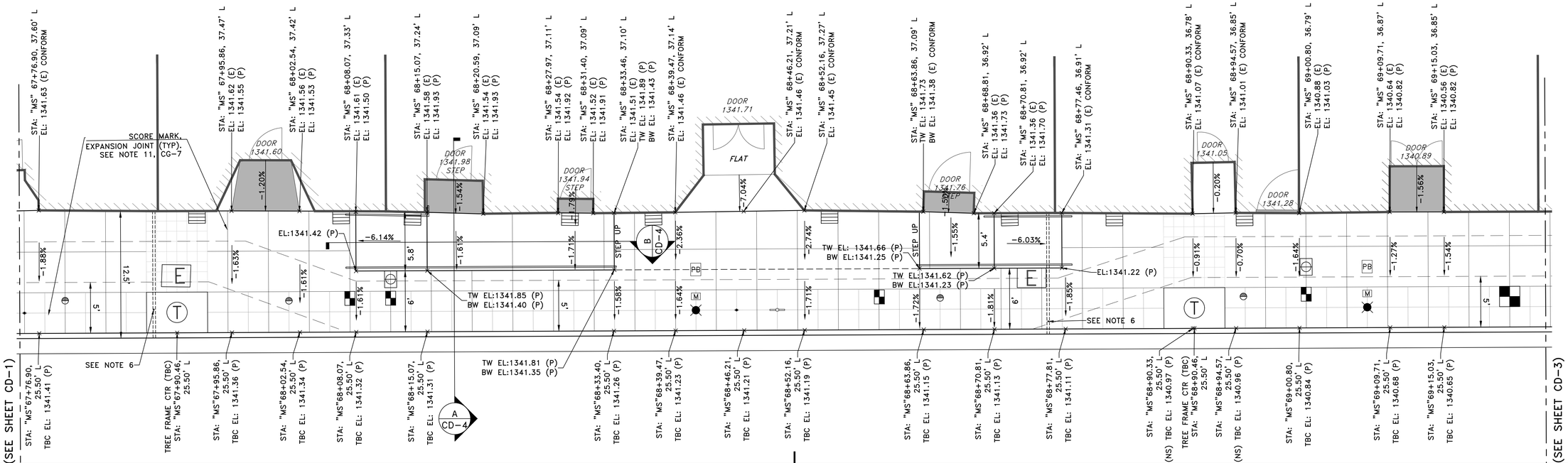

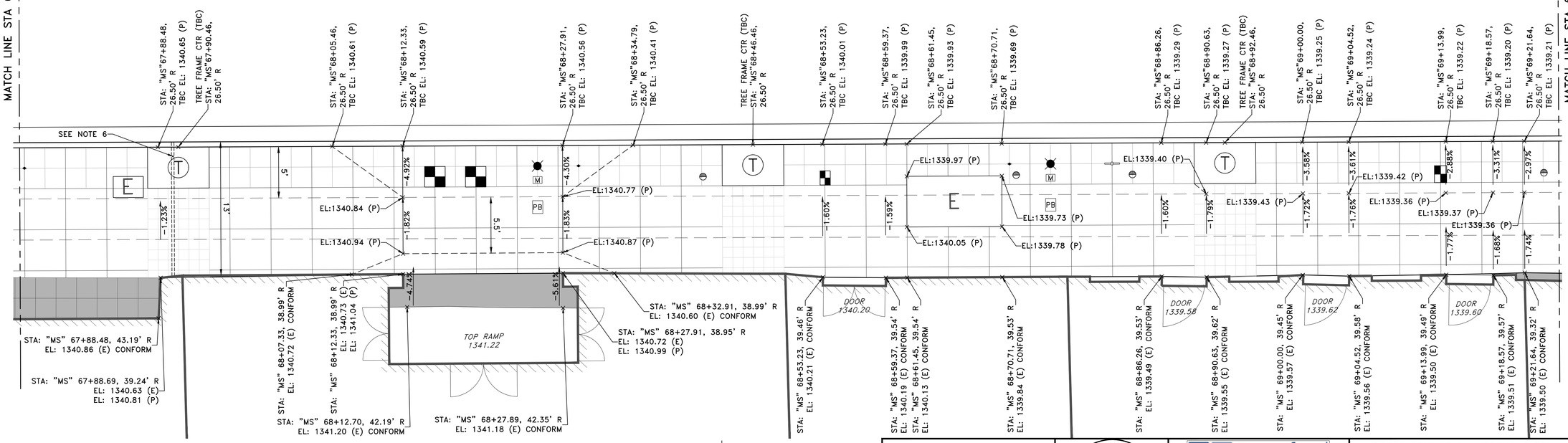

SEE CG-7 FOR NOTES AND LEGEND

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026 EXP.: 9-30-17	
VERIFY SCALE	
BAR REPRESENTS THREE INCHES ON ORIGINAL	

REGISTERED PROFESSIONAL ENGINEER — CATHY A. McKEON — NO. 51026 — EXP. 9-30-17 — CIVIL — STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

SIDEWALK LAYOUT & GRADING PLAN
N. MAIN STREET STA: 67+75 TO 69+25

CITY OF LAKEPORT — DRAWING NUMBER CG-2 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
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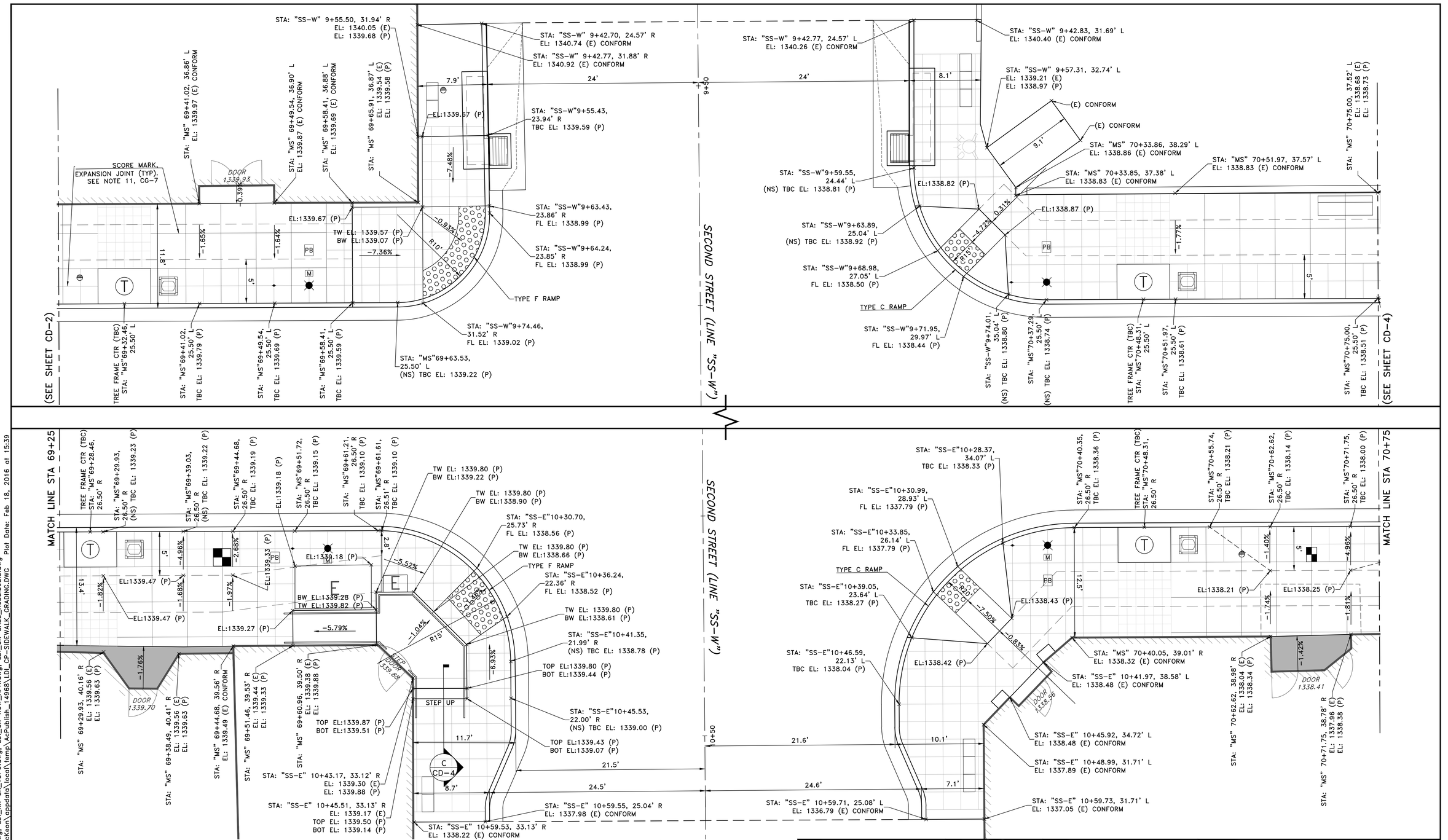

SEE CG-7 FOR NOTES AND LEGEND

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET — LAKEPORT, CA.

SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

SIDEWALK LAYOUT & GRADING PLAN
N. MAIN STREET STA: 69+25 TO 70+75

CITY OF LAKEPORT — DRAWING NUMBER CG-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
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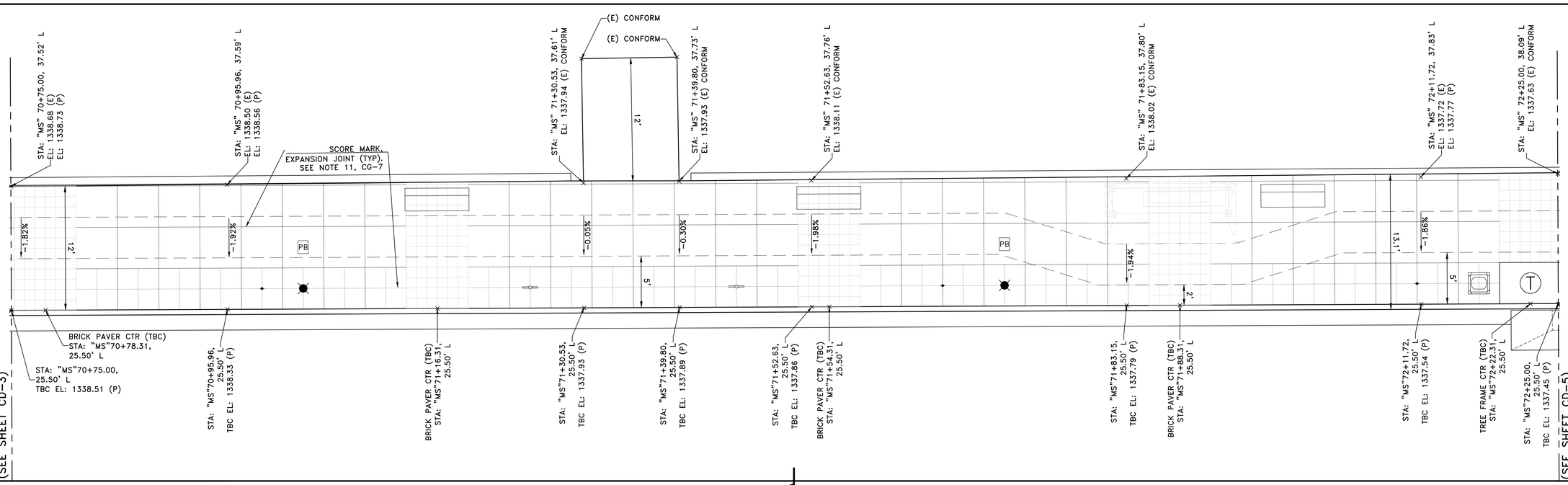

SEE CG-7 FOR NOTES AND LEGEND

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

SIDEWALK LAYOUT & GRADING PLAN
N. MAIN STREET STA: 70+75 TO 72+25

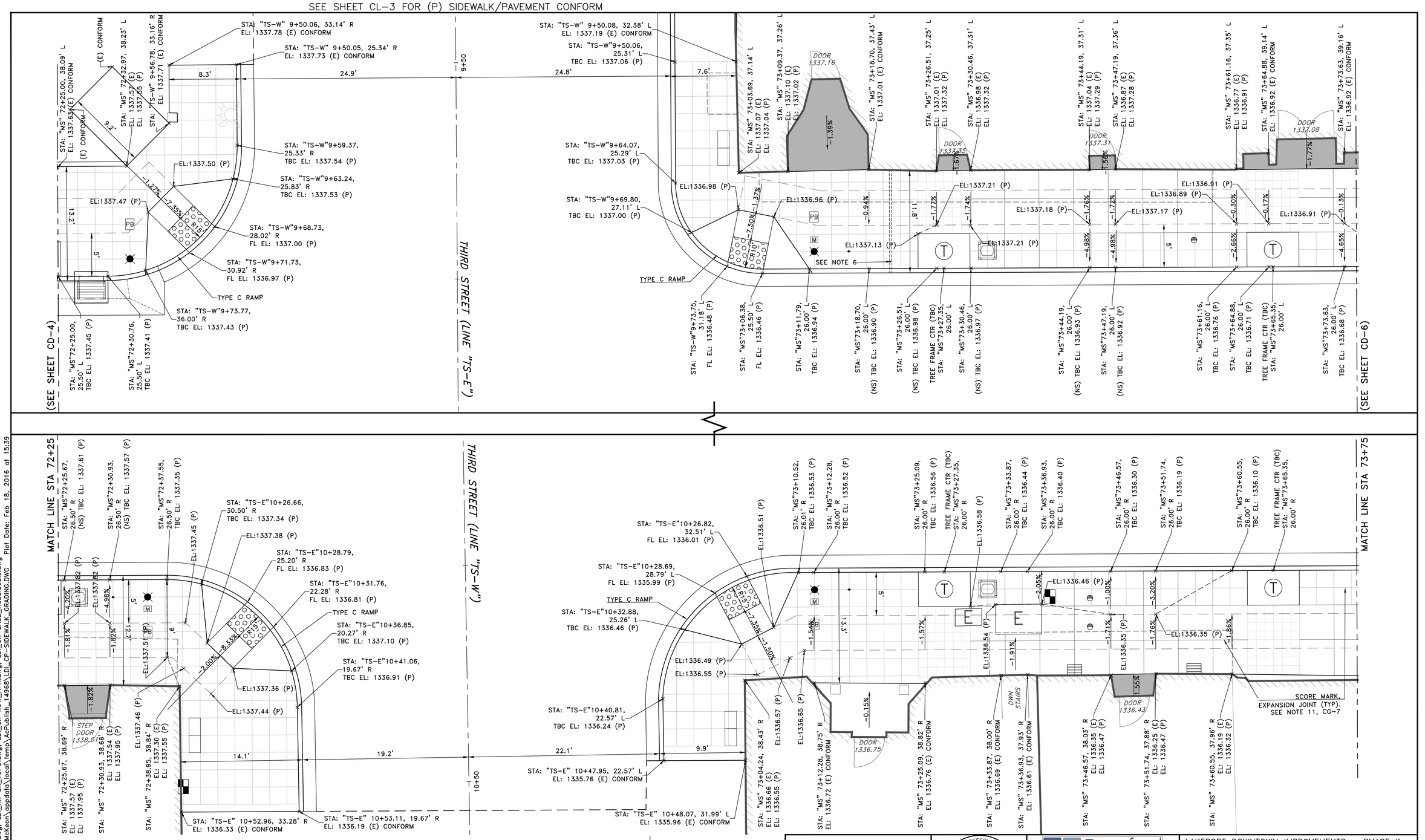
CITY OF LAKEPORT

DRAWING NUMBER CG-4 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: C:\Users\Cathy McKeon\appdata\local\temp\AcPublish_14968\LDI_CP-SIDEWALK_GRADING.DWG Plot Date: Feb 18, 2016 at 15:39

SEE SHEET CL-3 FOR (P) SIDEWALK/PAVEMENT CONFORM



SEE CG-7 FOR NOTES AND LEGEND

SCALE IN FEET

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

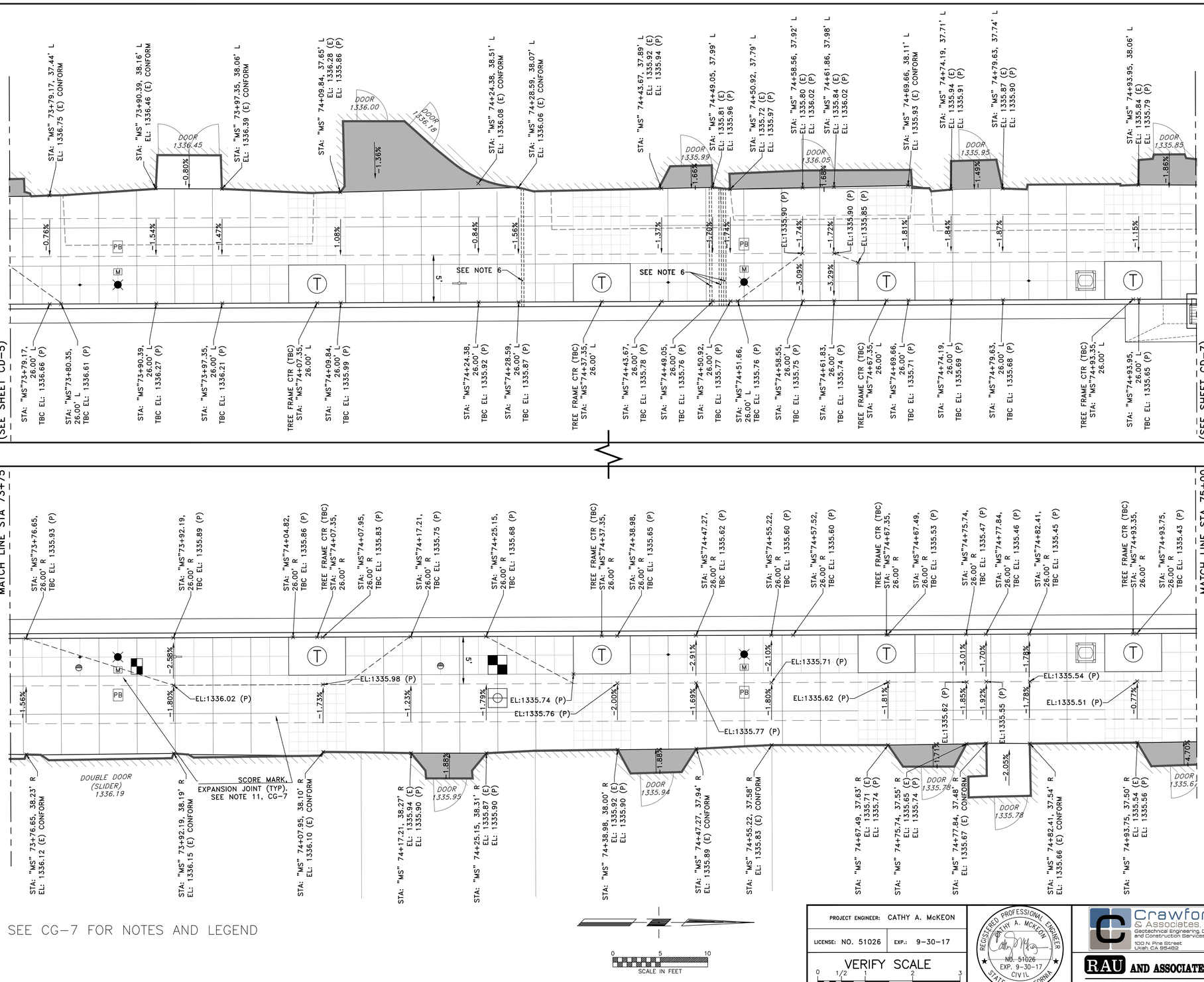
SIDEWALK LAYOUT & GRADING PLAN
N. MAIN STREET STA: 72+25 TO 73+75

CITY OF LAKEPORT

DRAWING NUMBER CG-5 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: C:\Users\Cathy McKeon\appdata\local\temp\AcPublish_14968\LDI_CP-SIDEWALK_GRADING.DWG Plot Date: Feb 18, 2016 at 15:39



SEE CG-7 FOR NOTES AND LEGEND

0 5 10
SCALE IN FEET

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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Ukiah CA 95482

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CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

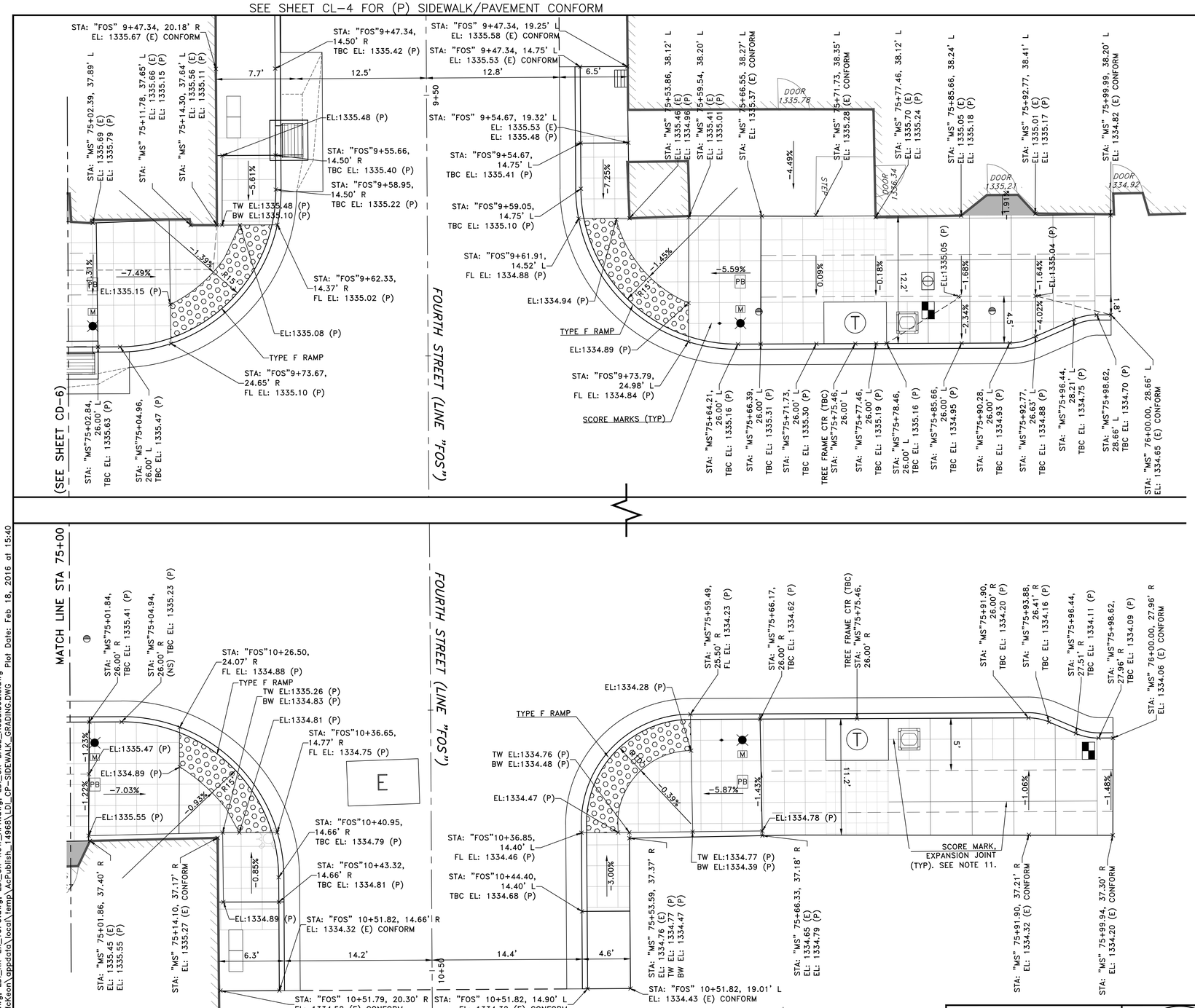
SIDEWALK LAYOUT & GRADING PLAN
N. MAIN STREET STA: 73+75 TO 75+00

CITY OF LAKEPORT

DRAWING NUMBER
CG-6 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: C:\Users\Cathy McKeon\appdata\local\temp\AcPublish_14968\LDI_CP-SIDEWALK_GRADING.DWG Plot Date: Feb 18, 2016 at 15:39



LEGEND:

- BENCH
- BIKE RACK
- BRICK PAVERS (SEE NOTE 15).
- E — PG&E ELECTRICAL BOX
- FLAG POLE
- FIRE HYDRANT
- STREET LIGHTS
- M — MEMORIAL PLAQUE
- NEWS RACK
- PRESSURE RELEASE VALVE
- PB — PULL BOX
- SANITARY SEWER CLEAN-OUT
- SIDEWALK GRADE-BREAK
- SIDEWALK PATH OF TRAVEL (POT)
- SIDEWALK UNDER-DRAIN
- STORM-DRAIN INLET
- TRASH RECEPTACLE (SALVAGED OR NEW)
- T — TREE FRAME
- TRUNCATED DOMES
- WATER METER BOX (SINGLE)
- WATER METER BOX (DOUBLE)
- VENT BOX

NOTES:

1. SEE SHEETS CL-1 THROUGH CL-4 FOR PROPOSED PAVEMENT LAYOUT
2. SEE SHEETS CP-1 THROUGH CP-8 FOR CONSTRUCTION PROFILES
3. SEE SHEETS U-1 THROUGH U-4 FOR WATER AND SANITARY SEWER LAYOUT
4. SEE SHEETS SD-1 THROUGH SD-2 FOR STORM DRAIN LAYOUT
5. SEE SHEETS E-1 – E-4 FOR ELECTRICAL LAYOUT.
8. SEE SHEETS L-1 THROUGH L-6 FOR LANDSCAPE AND LANDSCAPE FURNITURE LAYOUT AND DETAILS
9. SEE SHEETS LI-1 THROUGH LI-6 FOR LANDSCAPE IRRIGATION LAYOUT AND DETAILS.
10. SIDEWALK GRADE-BREAKS ARE LOCATED ALONG EDGE OF PATH OF TRAVEL (POT) TYPICALLY, UNLESS SHOWN OTHERWISE.
11. FOR TYPICAL SIDEWALK DETAILS SEE SHEETS CD-1 THROUGH CD-3.
12. RECONSTRUCT SIDEWALK UNDER-DRAIN PER CITY STD. NO. 409.
13. RECONSTRUCT SIDEWALK VENT BOX PER DETAIL 4, SHEET CD-2
14. THREE (3) OF THE EXISTING TWENTY-SEVEN (27) STREET LIGHTS, AS WELL AS THE THREE (3) NEW STREET LIGHTS, DO NOT HAVE AN EXISTING MEMORIAL PLAQUE BEHIND THEM. POTENTIAL NEW MEMORIAL PLAQUES BEHIND THOSE SIX (6) STREET LIGHTS WILL BE COORDINATED BY THE CITY OF LAKEPORT.
15. FOR ALTERNATE BID ITEM 1, BRICK PAVERS, SEE DETAIL 5 AND 6, SHEET TWO. PLACEMENT OF THESE PAVERS WOULD REPLACE THE LOCATIONS OF THE COLORED AND STAMPED CONCRETE AS SHOWN HEREIN.

BID SET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

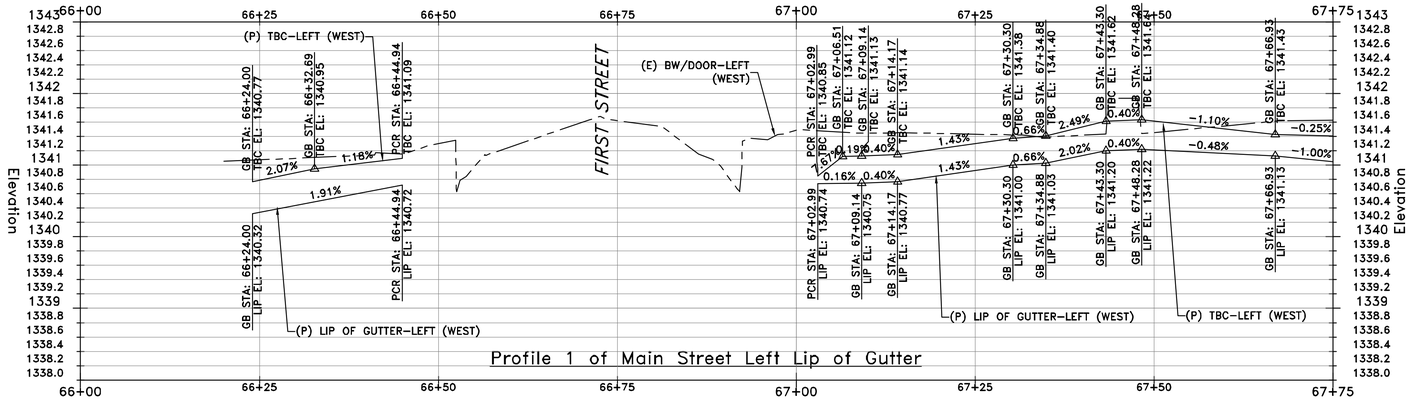
SCALE:	1"=5'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

SIDEWALK LAYOUT & GRADING PLAN
N. MAIN STREET STA: 73+75 TO 75+00

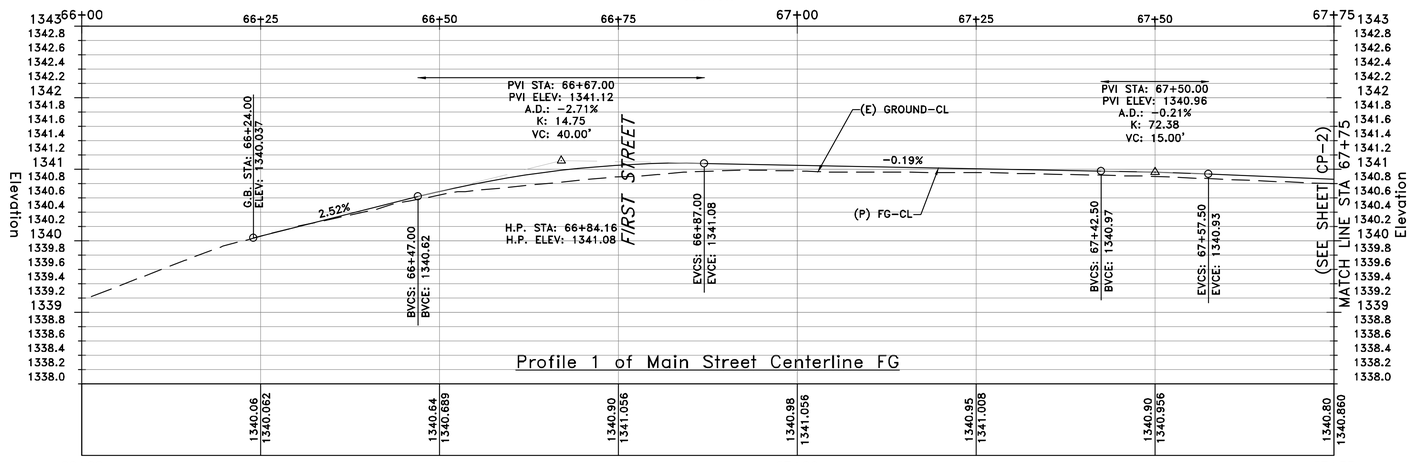
CITY OF LAKEPORT

DRAWING NUMBER CG-7 of 70 SHTS

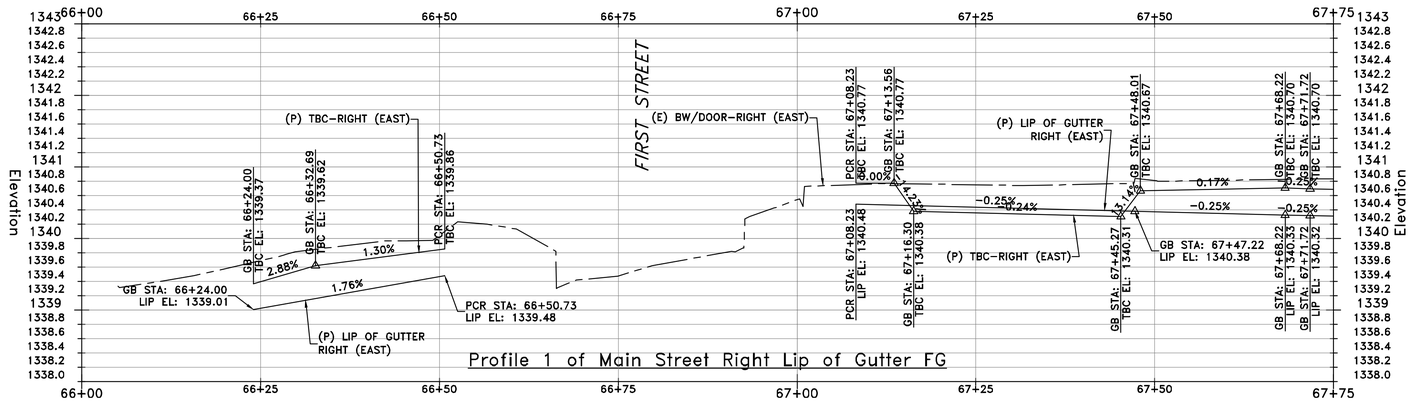
Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: C:\Users\Cathy McKeon\appdata\local\temp\AcPublish_14968\LDI_CP-SIDEWALK_GRADING.DWG Plot Date: Feb 18, 2016 at 15:40



Profile 1 of Main Street Left Lip of Gutter



Profile 1 of Main Street Centerline FG



Profile 1 of Main Street Right Lip of Gutter FG

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9–30–17

VERIFY SCALE

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER — CATHY A. McKEON — NO. 51026 — EXP. 9–30–17 — CIV IL — STATE OF CALIFORNIA

FEB. 18, 2016

Crawford & Associates, Inc. — Geotechnical Engineering, Design and Construction Services — 100 N. Pine Street, Ukiah, CA 95482

RAU AND ASSOCIATES INC.

CIVIL ENGINEERS · LAND SURVEYORS

100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II

S. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED | APPROVED BY: | DRAWN BY: RRH/MAW

DATE: FEB 2016 | REVIEWED BY: CAM

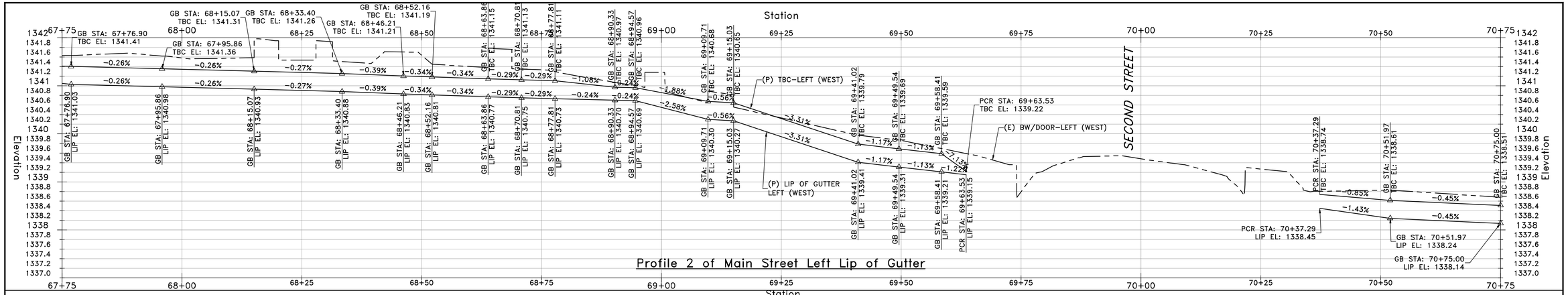
CONSTRUCTION PROFILE

STA: "MS" 66+00 TO STA: 67+75

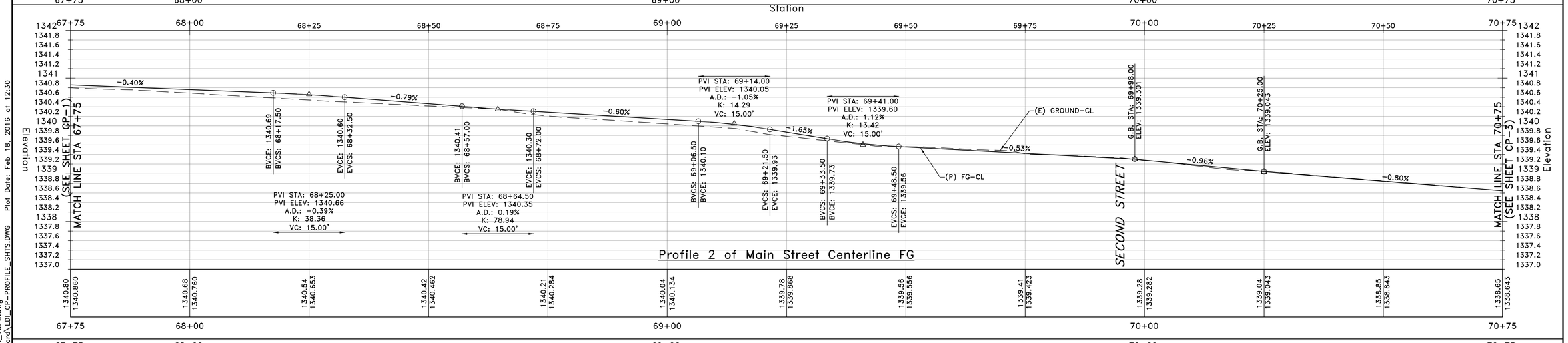
LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER CP-1 of 70 SHTS

BID SET

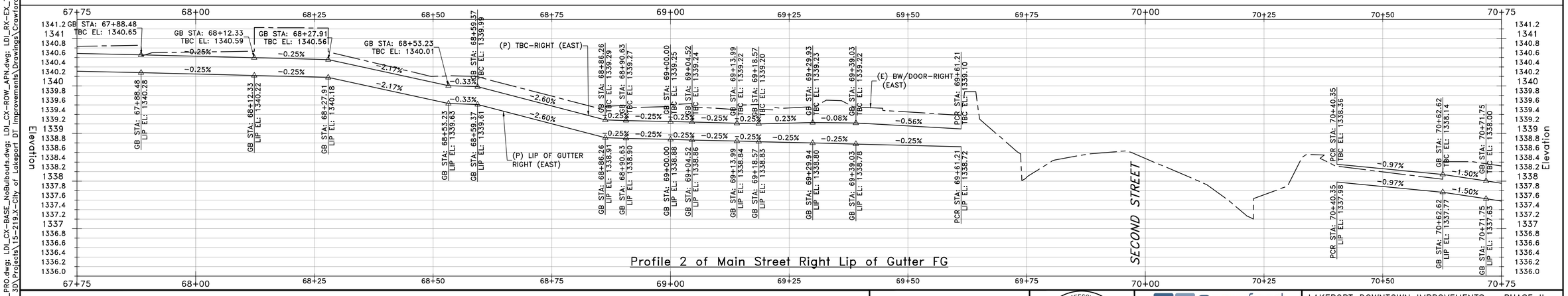
Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219_X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-PROFILE_SHTS.DWG Plot Date: Feb 18, 2016 at 12:30



Profile 2 of Main Street Left Lip of Gutter



Profile 2 of Main Street Centerline FG



Profile 2 of Main Street Right Lip of Gutter FG

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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Ukiah, CA 95482

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CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED APPROVED BY: DRAWN BY: RRH/MAW

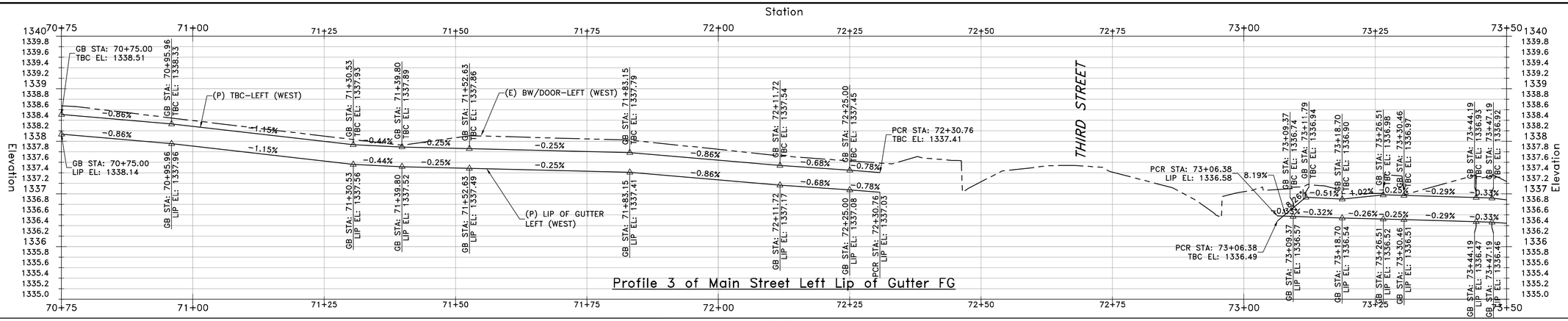
DATE: FEB 2016 REVIEWED BY: CAM

CONSTRUCTION PROFILE
STA: "MS" 67+75 TO STA: 70+75

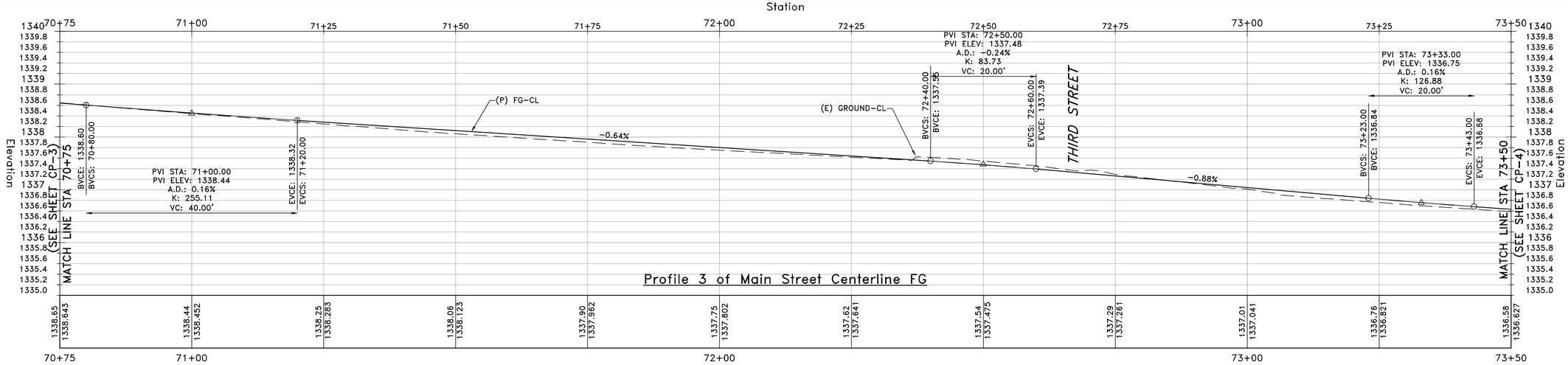
LAKEPORT REDEVELOPMENT AGENCY DRAWING NUMBER CP-2 of 70 SHTS

BID SET

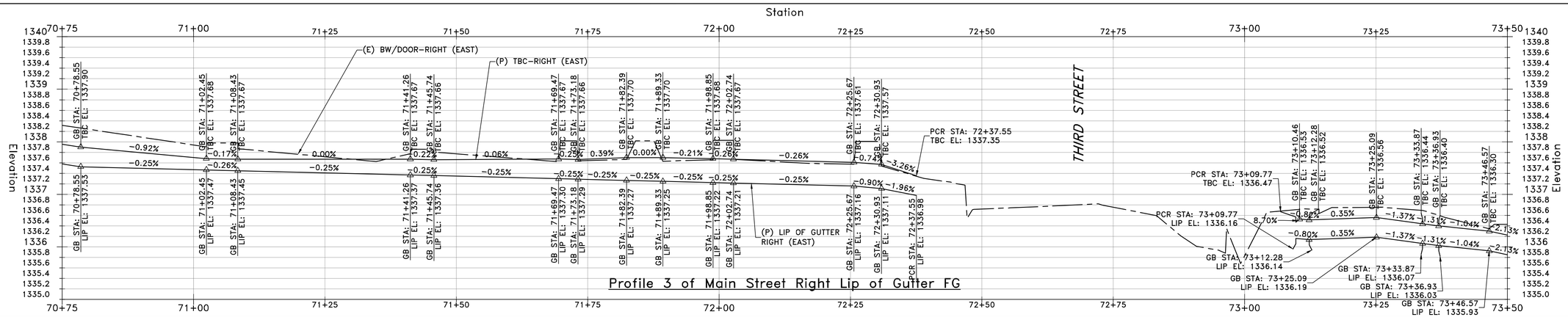
Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-PROFILE_SHTS.DWG Plot Date: Feb 18, 2016 at 12:30



Profile 3 of Main Street Left Lip of Gutter FG



Profile 3 of Main Street Centerline FG



Profile 3 of Main Street Right Lip of Gutter FG

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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Ukiah, CA 95482

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET — LAKEPORT, CA.

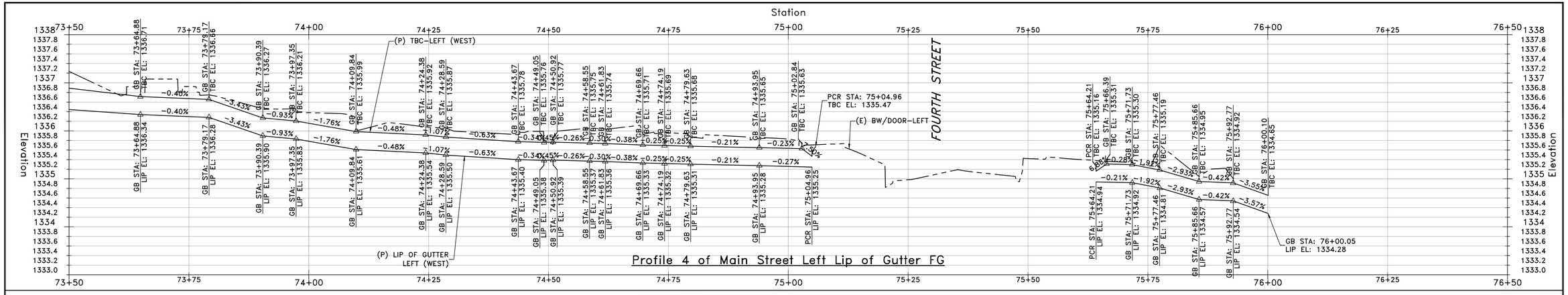
SCALE: AS NOTED	APPROVED BY:	DRAWN BY: RRH/MAW
DATE: FEB 2016		REVIEWED BY: CAM

CONSTRUCTION PROFILE
STA: "MS" 70+75 TO STA: 73+50

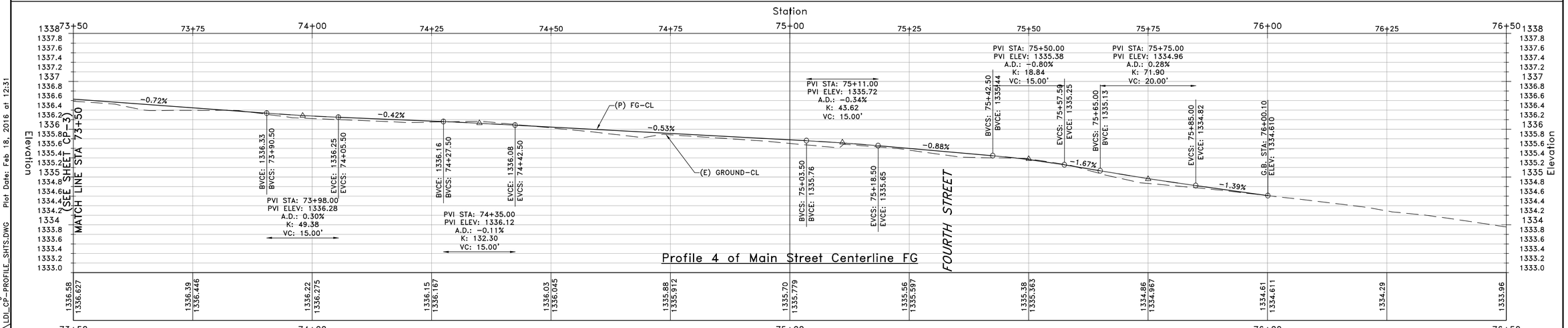
LAKEPORT REDEVELOPMENT AGENCY — DRAWING NUMBER CP-3 of 70 SHTS

BID SET

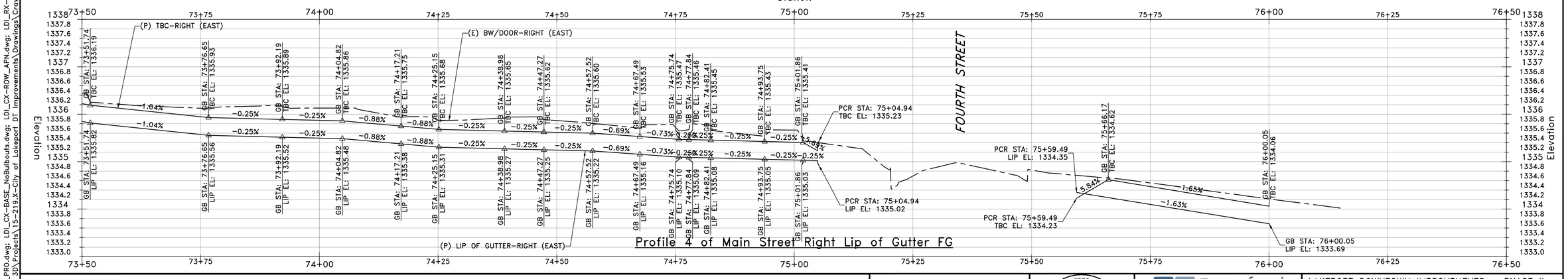
Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219_X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-PROFILE_SHTS.DWG Plot Date: Feb 18, 2016 at 12:31



Profile 4 of Main Street Left Lip of Gutter FG



Profile 4 of Main Street Centerline FG



Profile 4 of Main Street Right Lip of Gutter FG

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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Ukiah, CA 95482

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY: RRH/MAW
DATE: FEB 2016		REVIEWED BY: CAM

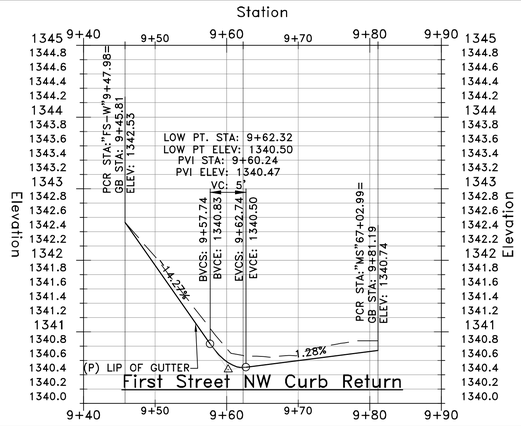
CONSTRUCTION PROFILE
STA: "MS" 73+50 TO STA: 76+50

LAKEPORT REDEVELOPMENT AGENCY

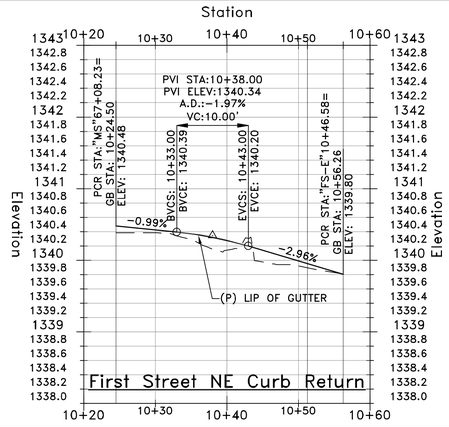
DRAWING NUMBER CP-4 of 70 SHTS

BID SET

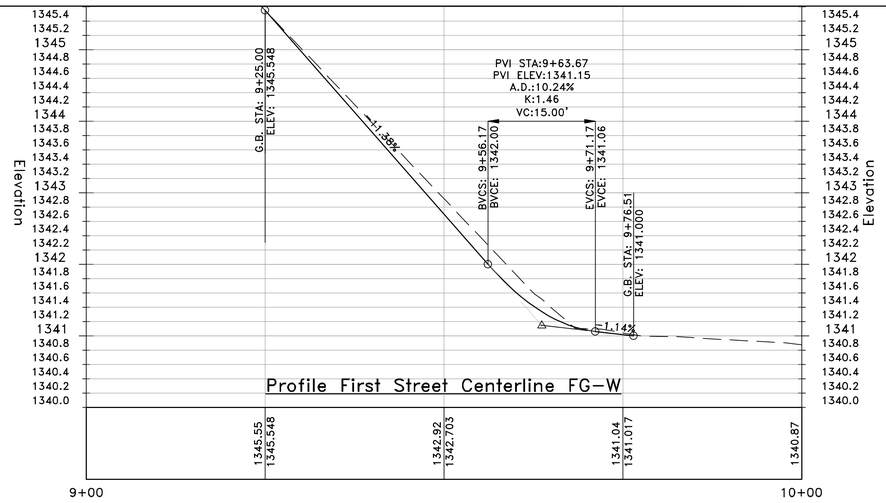
Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
Paths: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-PROFILE_SHTS.DWG Plot Date: Feb 18, 2016 at 12:31



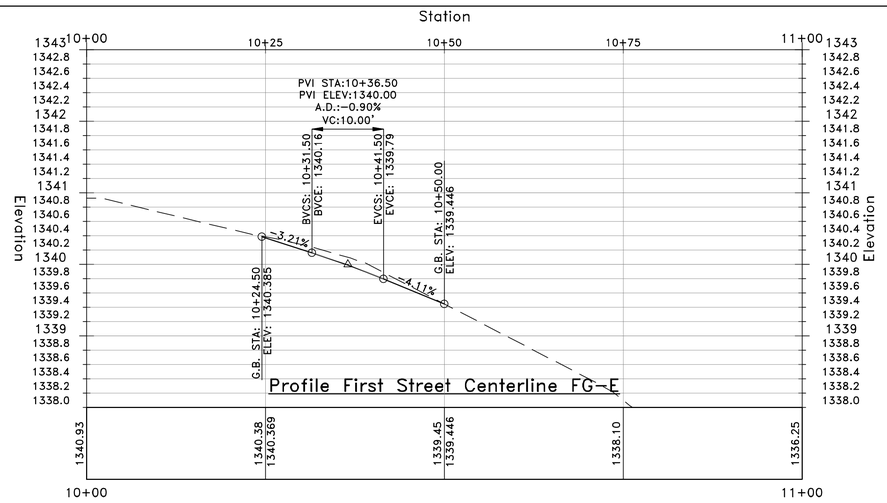
First Street NW Curb Return



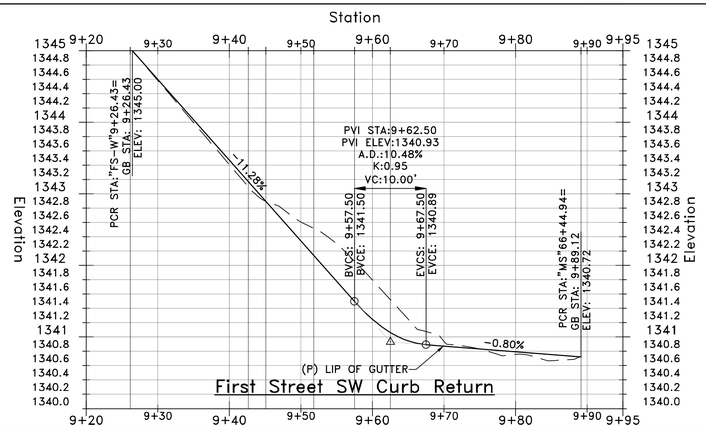
First Street NE Curb Return



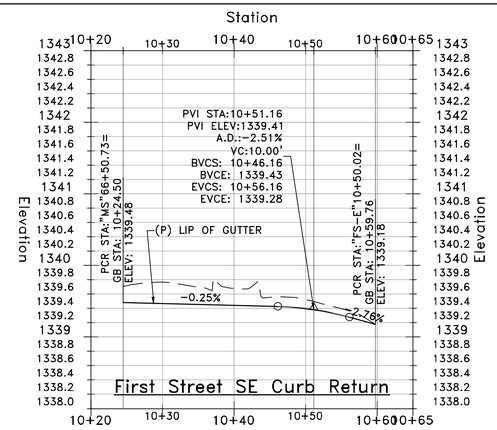
Profile First Street Centerline FG-W



Profile First Street Centerline FG-E



First Street SW Curb Return



First Street SE Curb Return

NOTE:
PROFILE REFERENCE IS LIP OF GUTTER

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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Ukiah, CA 95482

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
FIRST STREET LAKEPORT, CA.

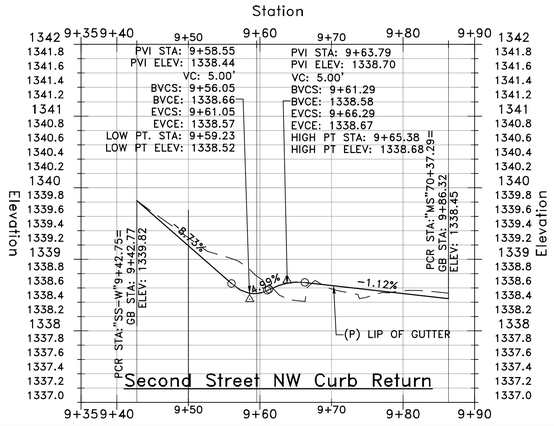
SCALE: AS NOTED | APPROVED BY: | DRAWN BY: RRH/MAW
DATE: FEB 2016 | REVIEWED BY: CAM

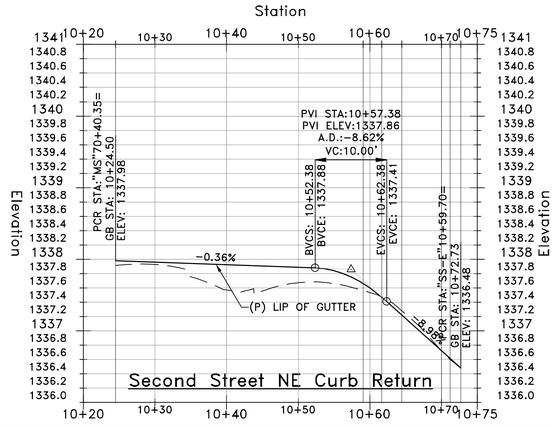
CONSTRUCTION PROFILE
STA: "FS" 9+00 TO STA: 11+75

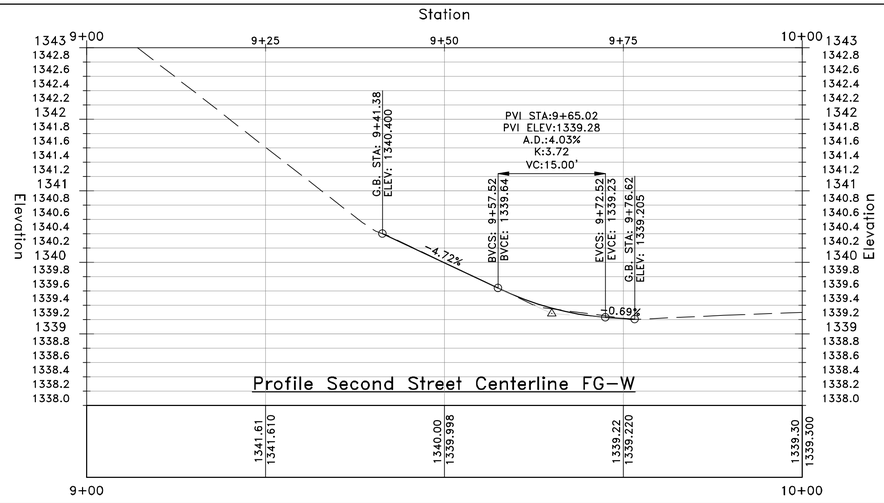
LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER CP-5 of 70 SHTS

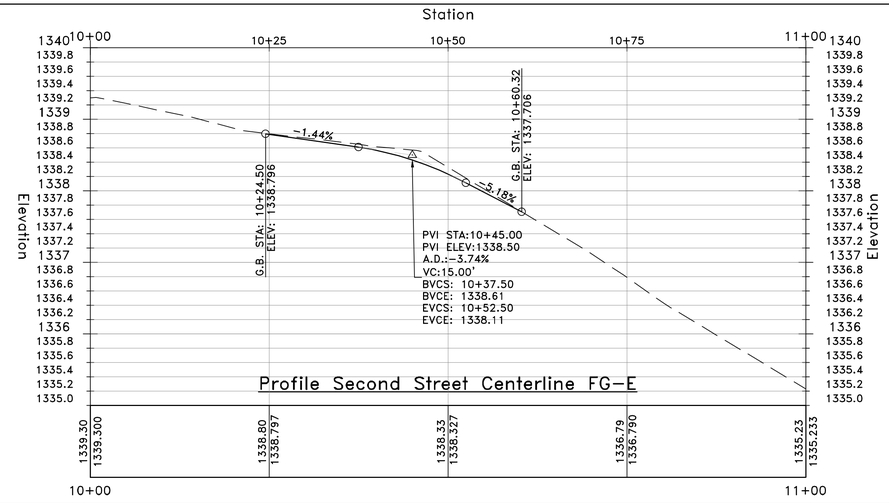
BID SET

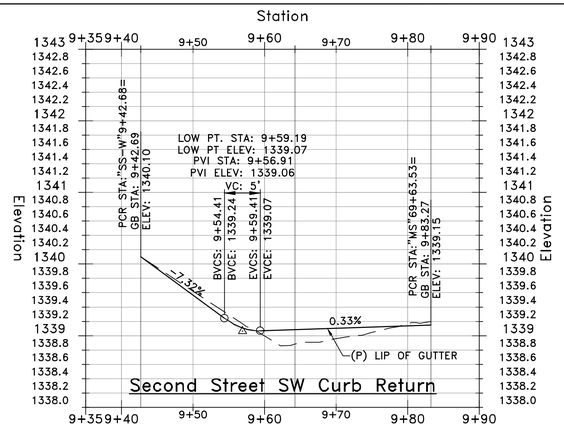
Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-PROFILE_SHTS.DWG Plot Date: Feb 18, 2016 at 12:31

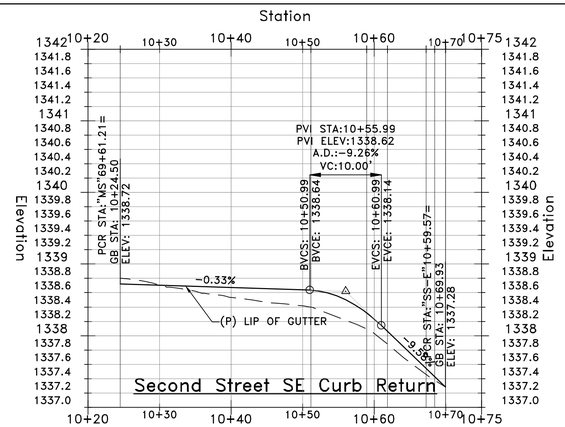












NOTE:
PROFILE REFERENCE IS LIP OF GUTTER

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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Ukiah, CA 95482

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100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
SECOND STREET LAKEPORT, CA.

SCALE: AS NOTED | APPROVED BY: | DRAWN BY: RRH/MAW

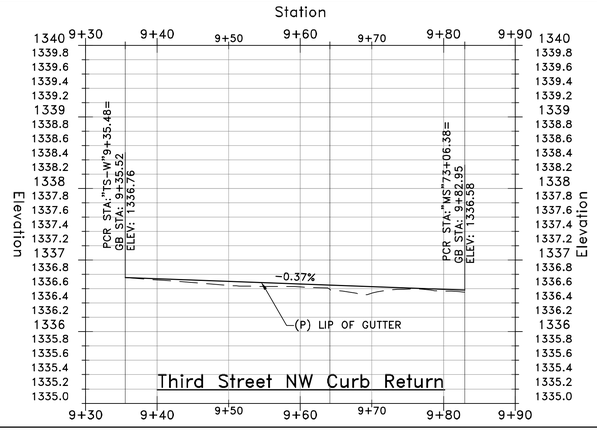
DATE: FEB 2016 | REVIEWED BY: CAM

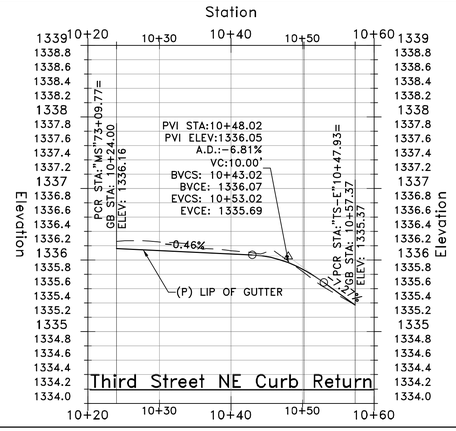
CONSTRUCTION PROFILE
STA: "SS" 9+00 TO STA: 11+75

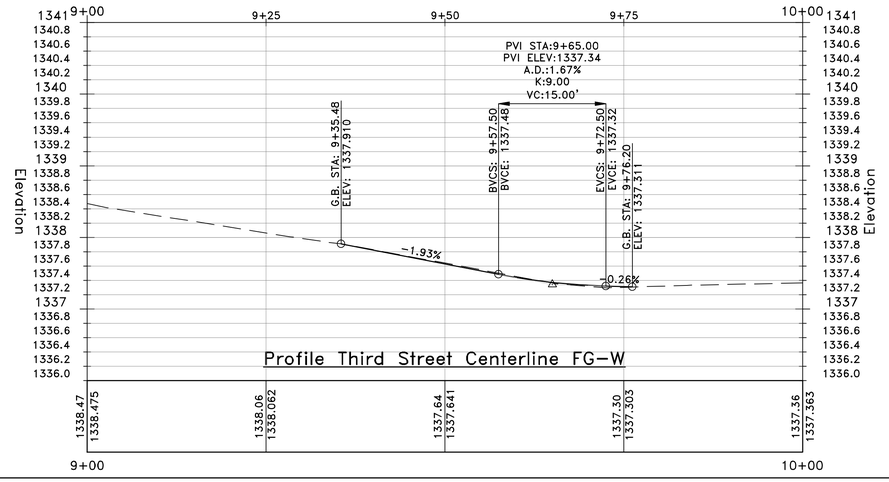
LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER CP-6 of 70 SHTS

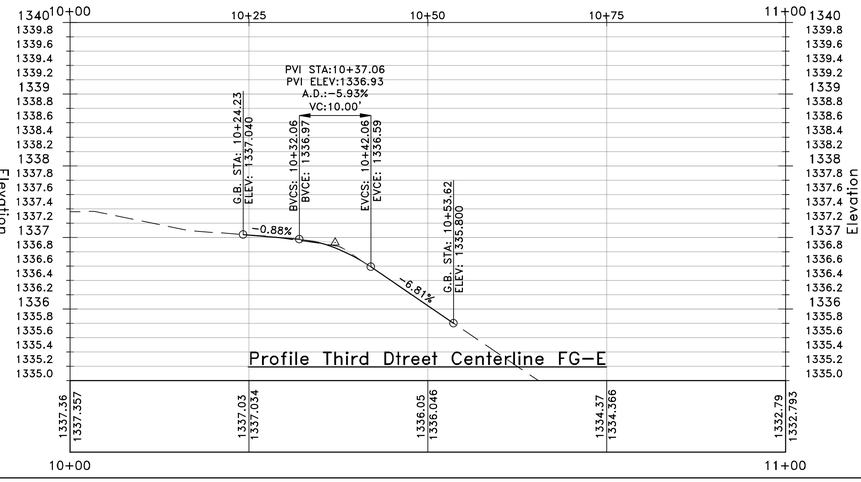
BID SET

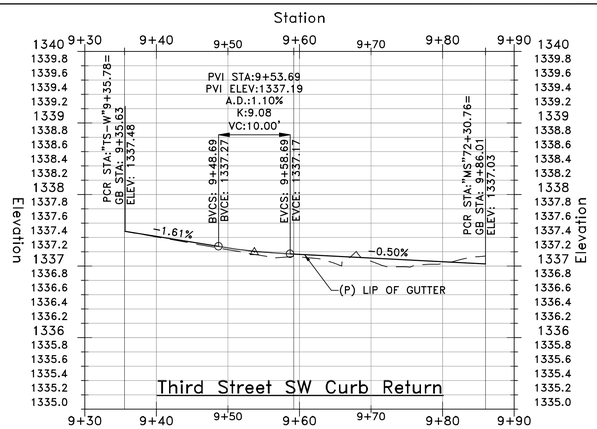
Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-PROFILE_SHTS.DWG Plot Date: Feb 18, 2016 at 12:31

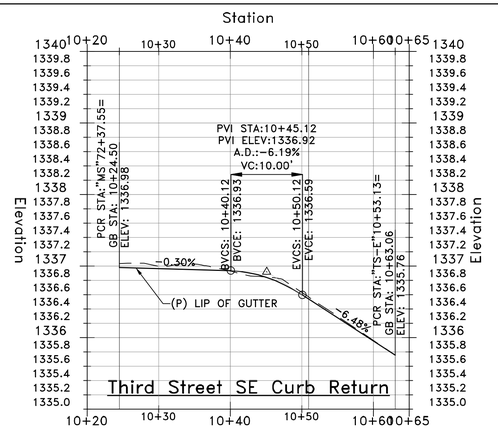












NOTE:
PROFILE REFERENCE IS LIP OF GUTTER

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
THIRD STREET LAKEPORT, CA.

SCALE: AS NOTED | APPROVED BY: | DRAWN BY: RRH/MAW
DATE: FEB 2016 | REVIEWED BY: CAM

CONSTRUCTION PROFILE
STA: "TS" 9+00 TO STA: 11+75

LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER CP-7 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
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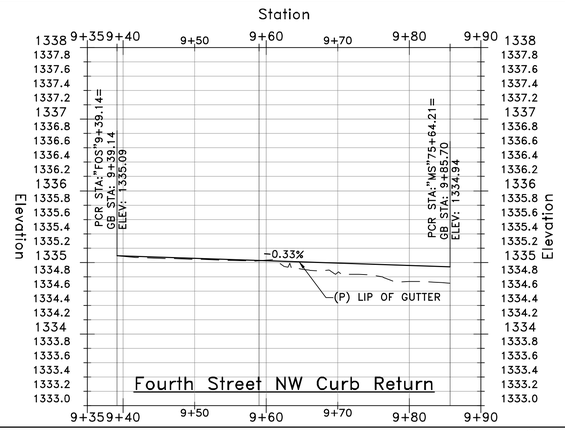

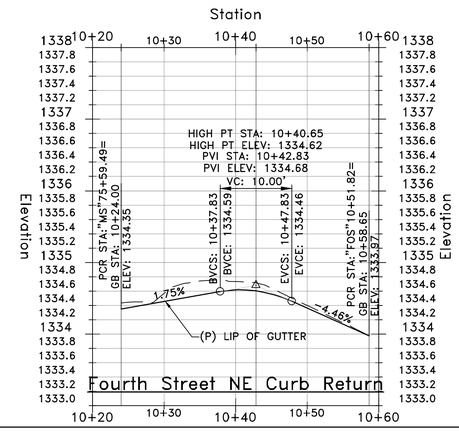

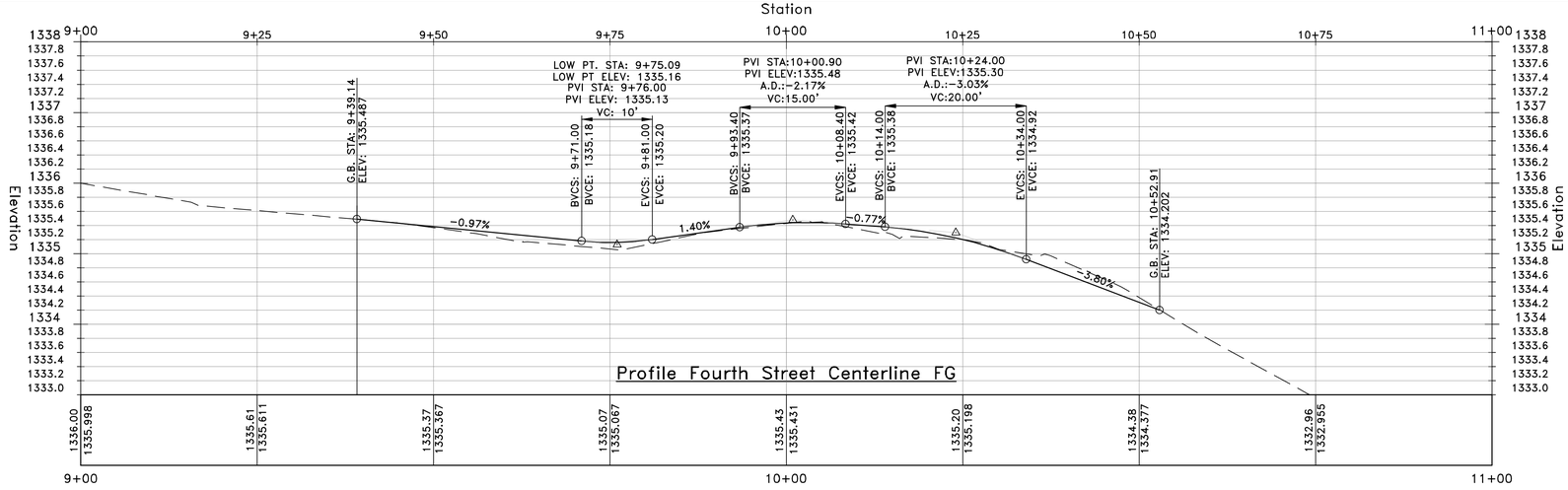

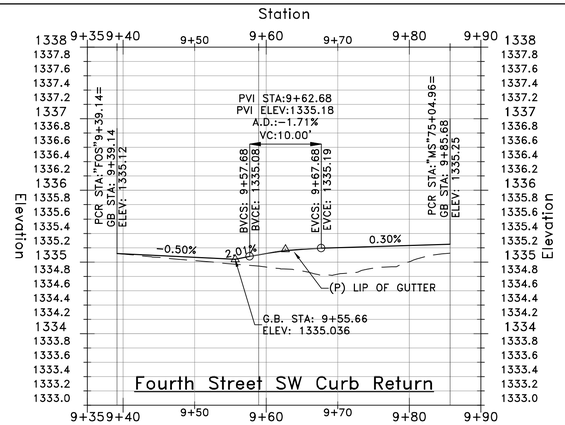

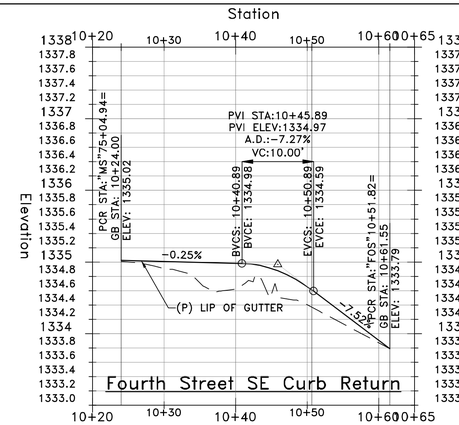

SCALE: HORZ. 1"=10'

SCALE: VERT. 1"=1'

NOTE:
PROFILE REFERENCE IS LIP OF GUTTER

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
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RAU AND ASSOCIATES INC.
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100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
FOURTH STREET LAKEPORT, CA.

SCALE: AS NOTED | APPROVED BY: | DRAWN BY: RRH/MAW

DATE: FEB 2016 | REVIEWED BY: CAM

CONSTRUCTION PROFILE
STA: "FOS" 9+00 TO STA: 11+00

LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER CP-8 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK_PRO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg
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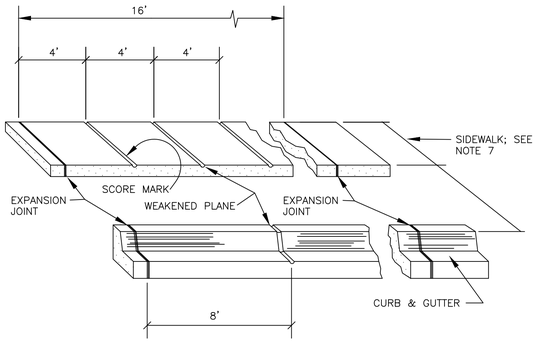


NOTES

1. WEAKENED PLANE: 1/8" WIDE X 1" DEEP IN SIDEWALK, 1/8" WIDE X 1-1/2" DEEP IN CURB & GUTTER (8' O.C.).

2. EXPANSION JOINTS: EXPANSION JOINTS SHALL BE EVERY 16' ALONG LENGTH OF SIDEWALK, TYPICAL. MATERIAL TO BE 1/2" THICK PREMOLDED JOINT FILLER, FULL THICKNESS OF CONCRETE. APPROVED MECHANICAL JOINTS MAY BE USED IN WALKS IN LIEU OF EXPANSION JOINTS. EXPANSION JOINTS SHALL BE PLACED IN THE SIDEWALK AT THE SAME LOCATION AS THOSE IN THE CURB & GUTTER, WHEN THE SIDEWALK IS ADJACENT TO THE CURB & GUTTER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DISTANCE BETWEEN JOINTS 60'. EXPANSION JOINTS SHALL BE INSTALLED IN THE CURB & GUTTER AT ALL CURB RETURNS, AND ALSO AT ALL DRIVEWAYS.

3. SCORE MARKS: IN SIDEWALK, 2'-4' O.C. SCORE MARKS SHALL BE TOOLED AS SHOWN ON DETAIL 1 SHEET CD-2.

4. CLASS "B" CONCRETE SHALL BE USED.

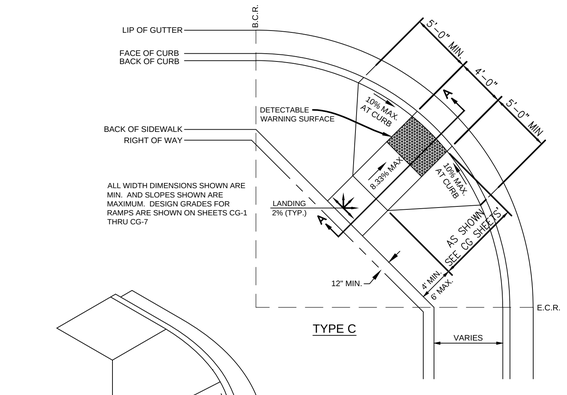
5. RELATIVE COMPACTION FOR AGGREGATE BASE MATERIAL 90%.

6. WEAKENED PLANE SHALL BE MADE AT BOTH SIDES OF VAULTS AND CATCH BASINS FROM BACK OF CURB TO BACK OF SIDEWALK.

7. WIDTH OF WALK VARIES FROM 6.2' TO 12.7'. SEE SHEET CG-1 THRU CG-7 FOR LAYOUT, GRADING AND SCORING DETAILS.

1 SIDEWALK SCORE MARK DETAIL

N.T.S.

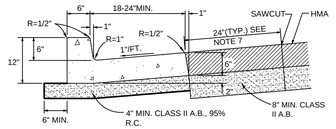


NOTES:

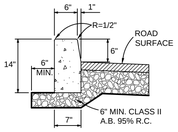
1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
2. TYPICAL CROSS-SECTION A-A PER DETAIL 5, THIS SHEET.

2 PEDESTRIAN RAMP TYPE C

N.T.S.

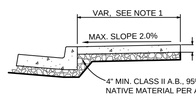


STANDARD CURB AND GUTTER



STANDARD VERTICAL CURB

TYPE B MEDIAN CURB



STANDARD SIDEWALK

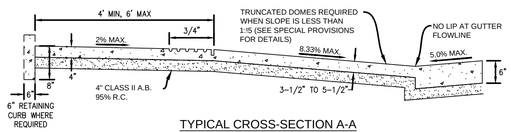
NOT TO SCALE

NOTES:

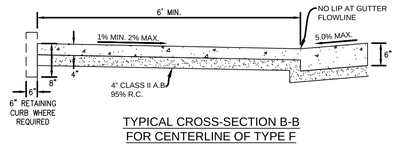
1. CONCRETE SHALL CONTAIN NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
2. DEEP SCORES (1/4 WAY THROUGH THICKNESS OF CONCRETE) EVERY 12 FEET.
3. SIDEWALKS SHALL BE SCORED INTO 5 FOOT SQUARES UNLESS OTHERWISE SPECIFIED BY ENGINEER.
4. IF EXTRUSION MACHINE IS USED, EXPANSION JOINTS SHALL BE DEEP SCORED 1/3 THE THICKNESS.
5. WEIGHT OF CURB AND/OR SIDEWALK AND CLASS 2 AGGREGATE SHALL EXCEED THE EXPANSION PRESSURE OF THE BASEMENT SOIL 'R' VALUEE
6. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
7. WHERE APPLICABLE, NEATLY CUT AND REMOVE PAVEMENT. REPLACE WITH NEW HMA AFTER CURB AND GUTTER IMPROVEMENTS ARE COMPLETE
8. SIDEWALK WIDTH VARIES, SEE SHEETS CG-1 THRU CG-7.

3 CURB, GUTTER AND SIDEWALK DETAILS

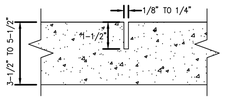
N.T.S.



TYPICAL CROSS-SECTION A-A FOR CENTERLINE OF TYPE A,B,C



TYPICAL CROSS-SECTION B-B FOR CENTERLINE OF TYPE F



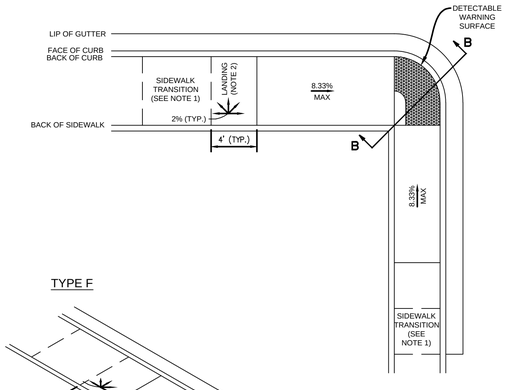
WEAKENED PLANE JOINT (WPJ)

NOTES:

1. ON RAMPS ADJACENT TO PANS TRUNCATED DOMES ARE REQUIRED WHEN SLOPE IS LESS THAN 1:15 (SEE STANDARD SPECIFICATIONS FOR DETAILS).
2. SURFACE OF RAMPS AND PANS SHALL HAVE A TRANSVERSE BROOM SURFACE TEXTURE ROUGHER THAN ADJACENT SIDEWALK.

5 PEDSTRIAN RAMP GENERAL DETAILS

N.T.S.



4 PEDESTRIAN RAMP TYPE F

N.T.S.

PEDESTRIAN RAMP NOTES

1. SIDEWALK TRANSITIONS
   - LOCATED ABOVE RAMP OR LANDING
   - 48" MIN. WIDTH
   - 2% (1:50) MAXIMUM CROSS-SLOPE AT RAMP OR LANDING
   - 8.33% (1:12) MAXIMUM SLOPE
2. LANDINGS
   - LOCATED ABOVE RAMP
   - 48" MIN. DIMENSION IN ALL DIRECTIONS
   - 2% (1:50) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
3. RAMPS
   - LOCATED ABOVE PAN OR BELOW LANDINGS
   - 48" MIN. WIDTH
   - 2% (1:50) MAXIMUM CROSS-SLOPE
   - 8.33% (1:12) MAXIMUM SLOPE
   - TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES
4. PANS
   - LOCATED BELOW RAMP
   - 48" MIN. AT BACK OF PAN
   - 48" MIN. FROM BACK OF PAN TO FLOW LINE
   - 1% (1:100) MINIMUM SLOPE FROM BACK OF PAN TO FLOW LINE
   - 2% (1:50) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
   - ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES
5. GUTTERS
   - ADJACENT TO RAMP OR PAN
   - 1% (1:100) MINIMUM SLOPE FROM BACK OF PAN TO FLOW LINE
   - 2% (1:50) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
   - ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES
   - ALL ELEMENTS, EXCEPT GUTTERS AND RETAINING CURBS, MUST BE CONSTRUCTED PLANAR IN NATURE WITH WEAKENED PLANE JOINTS SCORED BETWEEN EACH ELEMENT.
   - WHEN FEASIBLE, OPPOSING CURB RAMPS SHALL ALIGN, THESE DEFINITIONS AND STANDARDS, GENERAL DETAILS, AND STANDARD DRAWINGS SHALL APPLY TO ALL CURB AND GUTTER TYPES.
   - THERE ARE VARIATIONS AND ADJUSTMENTS THAT MAY BE REQUIRED UPON THE APPROVAL OF THE ENGINEER.
   - THERE ARE NO VARIANCES FOR THE MAXIMUM ALLOWABLE SLOPES AND CROSS-SLOPES.
6. FLARES
   - LOCATED ADJACENT TO RAMP
   - REQUIRED BETWEEN RAMPS WHERE THERE IS NO PLANTER AREA
   - REQUIRED ON THE EXTERIOR OF RAMPS WHERE THERE IS AN ADJACENT CONCRETE SIDEWALK, REGARDLESS OF OBSTACLES
   - GENERALLY TRIANGULAR-SHAPED
   - 10% (1:10) MAXIMUM SLOPE
7. RETAINING CURB
   - REQUIRED ADJACENT TO SIDEWALK TRANSITIONS, LANDINGS, RAMPS, AND PANS WHERE THE EXISTING LANDSCAPE (PLANTER) AREA IS 4" OR HIGHER AT ANY POINT ABOVE THE NEWLY CONSTRUCTED CURB RAMP ELEMENT
   - REQUIRED FOR EXISTING PLANTER AREAS BETWEEN RAMPS
   - RETAINING CURBS ARE TO HAVE A 6" WIDTH AND A VERTICAL FACE
   - RETAINING CURB FOUNDATIONS ARE TO EXTEND 8" BELOW THE ADJACENT RAMP ELEMENT SURFACE
   - OUTSIDE CORNERS OF RETAINING CURBS MUST HAVE A 6" RADIUS
8. DETECTABLE WARNING SURFACE
   - DETECTABLE WARNING SURFACE SHALL CONFORM TO CALTRANS STANDARD PLAN RSP A88A OR NEWEST VERSION.

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER CATHY A. McKEON NO. 51026 EXP. 9-30-17 CIVIL STATE OF CALIFORNA

FEB. 18, 2016

Crawford & Associates, Inc. Geotechnical Engineering, Design and Construction Services 100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.

CIVIL ENGINEERS · LAND SURVEYORS

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB 2016		REVIEWED BY:	CAM

SIDEWALK DETAILS

CITY OF LAKEPORT

DRAWING NUMBER CD-1 OF 70

BID SET

Xrefs: LDI_CX-TBLOCK.dwg
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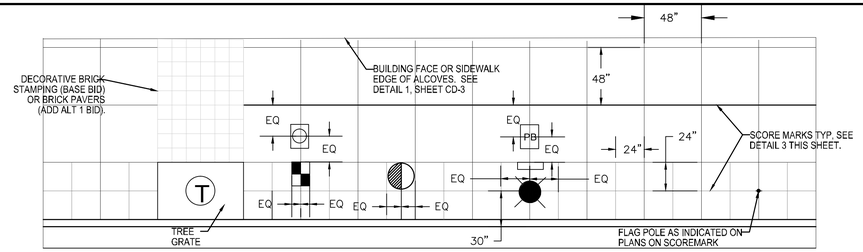


LEGEND

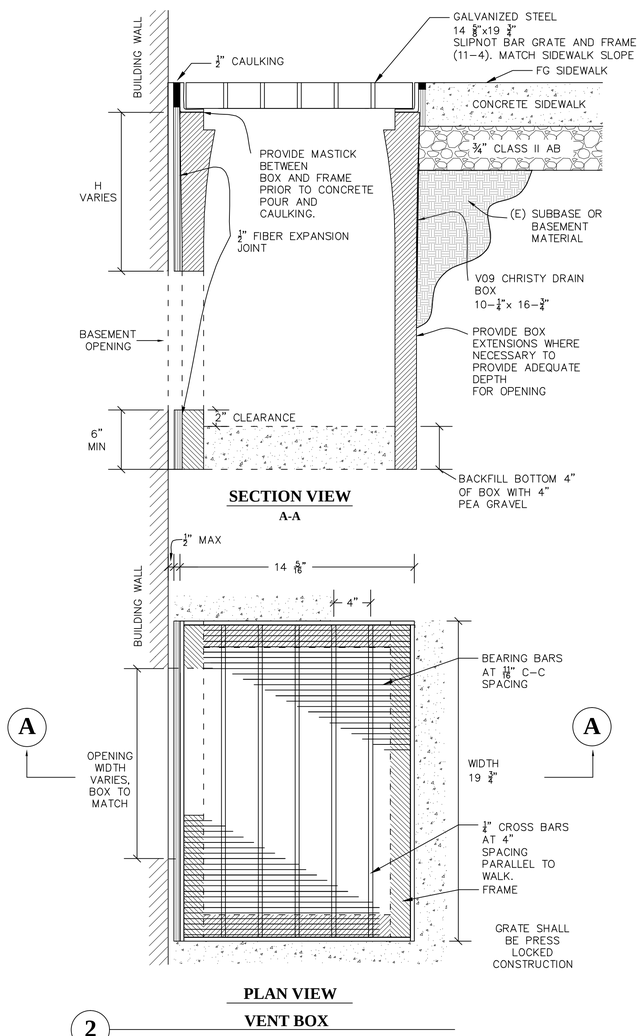
- PB — ELECTRICAL PULL BOX (STREETLIGHTS)
- PLAQUE
- STREET LIGHT
- WATER METER
- PRESSURE REDUCING VALVE
- FLAGPOLE

UTILITY LAYOUT NOTES:

1. UNDERGROUND UTILITIY LINES NOT SHOWN. SEE SHEETS U-1 TO U-4.
2. THIS LAYOUT IS TYPICAL AND MAY NEED TO BE MODIFIED TO FIT FIELD CONDITIONS.
3. CONTRACTOR TO FIELD LOCATE CENTER OF BOXES AND RECEIVE APPROVAL PRIOR TO INSTALLING LATERALS.
4. ELECTRICAL PULL BOXES TO BE RAISED ONLY BY OTHERS.

1 SIDEWALK SCORING AND BOX LAYOUT

N.T.S.



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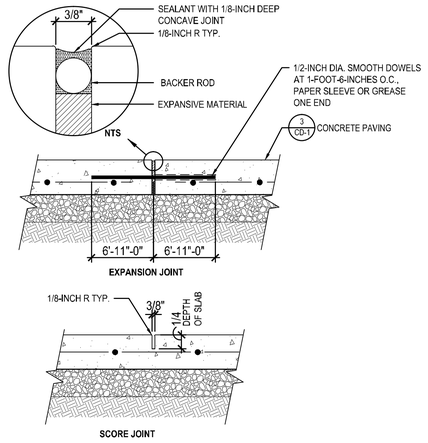
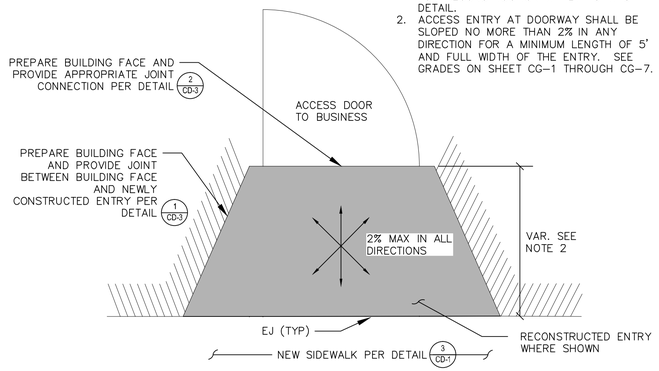


3 SCORING AND EXPANSION JOINT DETAIL

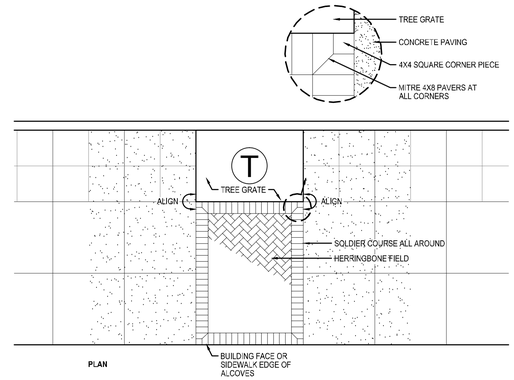
N.T.S.

NOTES:
1. ONLY DOORWAY ENTRIES THAT ARE NOTED FOR RECONSTRUCTION APPLY TO THIS DETAIL.
2. ACCESS ENTRY AT DOORWAY SHALL BE SLOPED NO MORE THAN 2% IN ANY DIRECTION FOR A MINIMUM LENGTH OF 5' AND FULL WIDTH OF THE ENTRY. SEE GRADES ON SHEET CG-1 THROUGH CG-7.



4 DOOR ENTRY PAVING DETAIL

PLAN VIEW

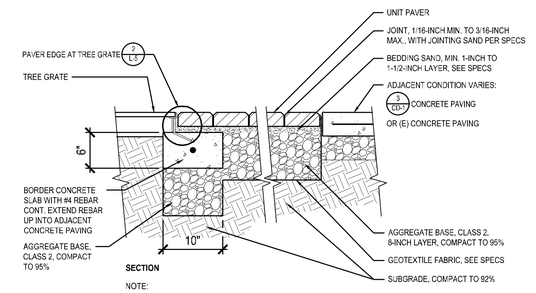


NOTES

1. THIS DETAIL IS ONLY APPLICABLE FOR ALT 1 BID OPTIONS.
2. BRICK PAVERS DO NOT EXTEND INTO DOORWAY ALCOVERS.

5 BID ALT 1: BRICK PAVER LAYOUT DETAIL

N.T.S.



NOTE:

1. THIS DETAIL IS ONLY APPLICABLE FOR ADD ALT 1 BID OPTIONS.
2. SET TOP OF PAVERS 1/8-INCH ABOVE TOP OF ADJACENT CONCRETE AFTER VIBRATION.

6 BID ALT 1: BRICK PAVER SECTION DETAIL

N.T.S.

BID SET

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

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0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER — CATHY A. McKEON — NO. 51026 EXP. 9-30-17 CIV IL — STATE OF CALIFORNIA
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N. MAIN STREET LAKEPORT, CA.

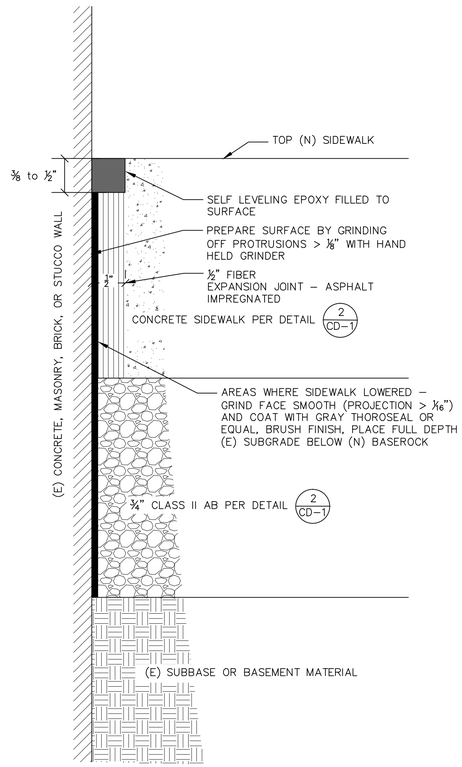
SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB 2016		REVIEWED BY:	CAM

SIDEWALK DETAILS

CITY OF LAKEPORT

DRAWING NUMBER CD-2 OF 70

Xrefs: LDI_CX-TBLOCK.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-DETAILS SWALK.dwg Plot Date: Feb 18, 2016 at 12:31

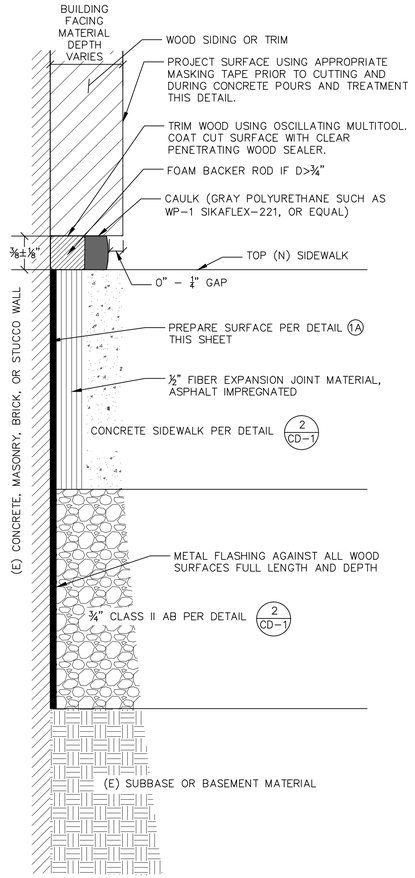


TYPE A (TYPICAL)

1A SIDEWALK FINISH AT BUILDINGS - NON WOOD

N.T.S.

NOTE: FOR SIDEWALK FINISH WITH WOOD TRIM USE DETAIL 1B,1C, OR 1D DEPENDING ON CONDITIONS.

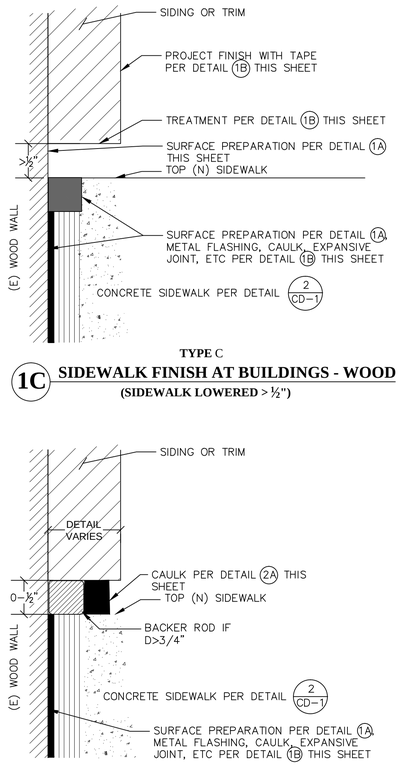


TYPE B

1B SIDEWALK FINISH AT BUILDINGS - WOOD

(SIDEWALK RAISED)

N.T.S.



TYPE C

1C SIDEWALK FINISH AT BUILDINGS - WOOD

(SIDEWALK LOWERED > ½")

TYPE D

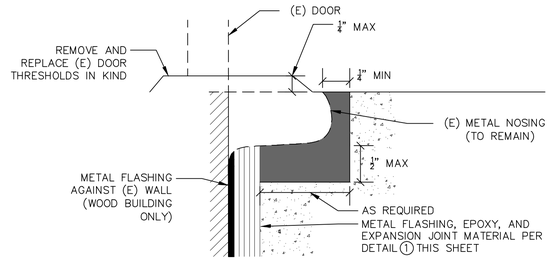
1D SIDEWALK FINISH AT BUILDINGS - WOOD

(SIDEWALK LOWERED 0" to ½")

N.T.S.

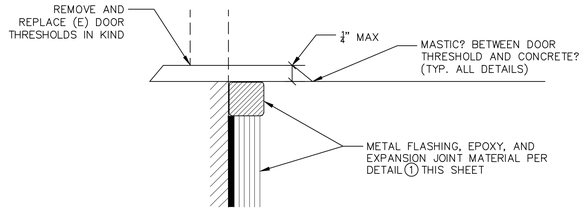
1 SIDEWALK FINISHES AT BUILDINGS

N.T.S.



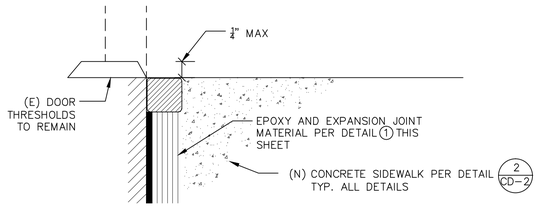
2A SIDEWALK FINISH AT DOORWAYS

METAL EDGING



2B SIDEWALK FINISH AT DOORWAYS

STANDARD THRESHOLD



2C SIDEWALK FINISH AT DOORWAYS

RECESSED THRESHOLD

2 SIDEWALK FINISHES AT DOORWAY ENTRIES

N.T.S.

BID SET

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET — LAKEPORT, CA.

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DATE: FEB 2016		REVIEWED BY:	CAM

SIDEWALK DETAILS

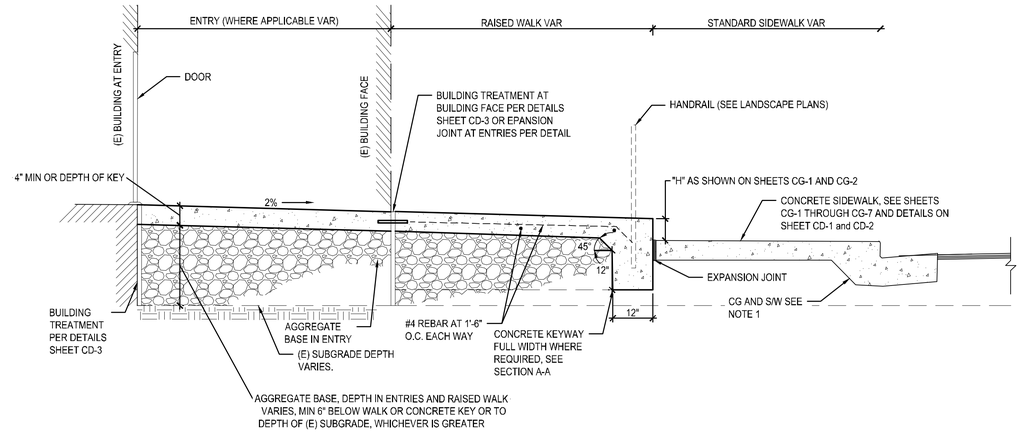
CITY OF LAKEPORT

DRAWING NUMBER CD-3 OF 70

Xrefs: LDI_CX-TBLOCK.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-DETAILS SWALK.dwg Plot Date: Feb 18, 2016 at 12:31

NOTES:

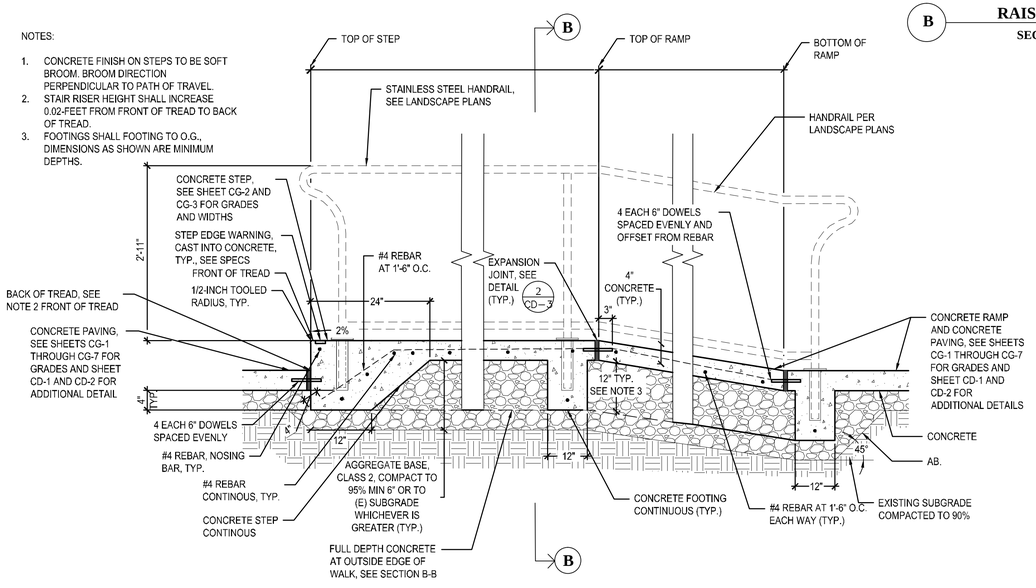
1. GRADES AT ENTRY, RAISED WALK, AND SIDEWALK ARE AS SHOWN ON SHEETS CG-1 THROUGH CG-7



B **RAISED WALK**
SECTION B-B N.T.S.

NOTES:

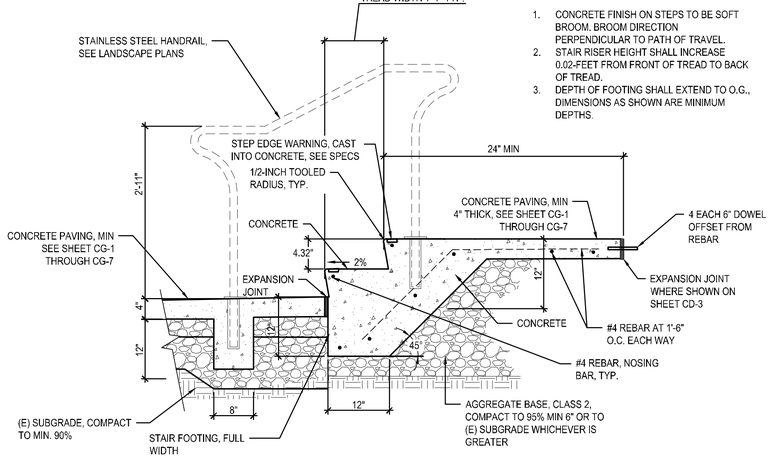
1. CONCRETE FINISH ON STEPS TO BE SOFT BROOM. BROOM DIRECTION PERPENDICULAR TO PATH OF TRAVEL.
2. STAIR RISER HEIGHT SHALL INCREASE 0.02-FEET FROM FRONT OF TREAD TO BACK OF TREAD.
3. FOOTINGS SHALL FOOTING TO O.G., DIMENSIONS AS SHOWN ARE MINIMUM DEPTHS.



A **RAISED WALK**
SECTION A-A N.T.S.

NOTES:

1. CONCRETE FINISH ON STEPS TO BE SOFT BROOM. BROOM DIRECTION PERPENDICULAR TO PATH OF TRAVEL.
2. STAIR RISER HEIGHT SHALL INCREASE 0.02-FEET FROM FRONT OF TREAD TO BACK OF TREAD.
3. DEPTH OF FOOTING SHALL EXTEND TO O.G., DIMENSIONS AS SHOWN ARE MINIMUM DEPTHS.



C **STEPS AT SECOND STREET**
SECTION C-C N.T.S.

1 RAISED WALK SECTIONS
N.T.S.

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB 2016		REVIEWED BY:	CAM

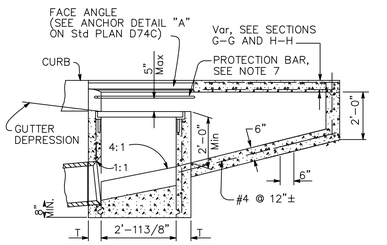
SIDEWALK DETAILS

CITY OF LAKEPORT

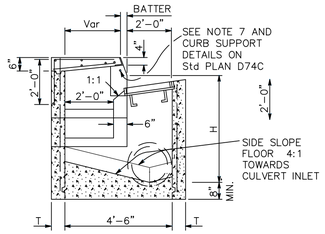
DRAWING NUMBER CD-4 OF 70

BID SET

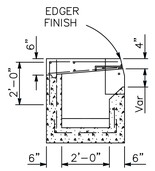
Xrefs: LDI_CX-TBLOCK.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-DETAILS SWALK.dwg Plot Date: Feb 18, 2016 at 12:31



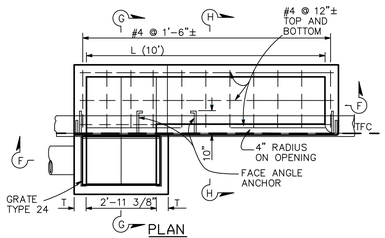
SECTION F-F



SECTION G-G



SECTION H-H



PLAN

TYPE GOL-10

TABLE A

CONCRETE QUANTITIES

TYPE	H=3'-0" TO 8'-0" (T=6")		H=8'-1" TO 20'-0" (T=8")	
	H=3'-0" (CY)	ADDITIONAL PCC PER FOOT (CY)	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
GOL-7	2.33	0.313	4.96	0.434
GOL-10	2.84	0.313	5.47	0.434

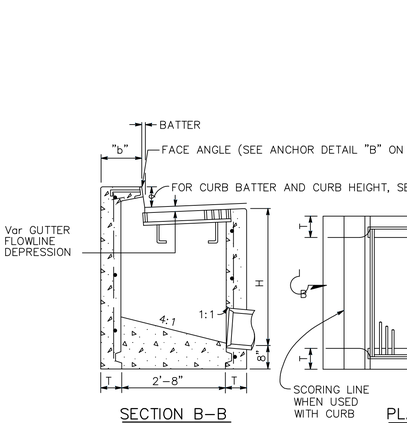
* Based on H=3.1'

Table based on 8" floor slab, 7" curb openings, and curb type giving highest quantity of concrete. No deductions or adjustments are to be made to these quantities because of pipe openings, different floor alternatives, different curb types or different height of curb openings.

1 TYPE GOL-10 DRAINAGE INLET

GOL-10 DRAINGE INLET NOTES:

1. "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed at the curb face.
2. For "T" wall thickness, see Table A below.
3. Height of curb opening will vary with the type of curb and the depth of the local depression.
4. Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 bars @ 1'-6" ± centers placed 11/2" clear to inside of box unless otherwise shown.
5. Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom.
6. Steps-None required where "H" is less than 2'-6". Where "H" is 2'-6" or more,
7. install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and be uniform throughout the length of the wall. Place steps in the wall without an opening. Step inserts may be substituted for the bar steps. Step inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
8. When shown on the project plans, place a 3/4" plain round protection bar horizontally across the length of the opening and bend back 4" into the inlet wall on each side.
9. Pipe(s) can be placed in any wall.
10. Curb section shall match adjacent curb.
11. Except for inlets used as junction boxes, basin floor shall have a minimum slope of 4:1 from all directions toward outlet pipe and shall have a wood trowel finish.
12. See Standard Plans D77A and D77B for grate and frame details and weights of miscellaneous iron and steel. All grates shall be 24-12X bicycle proof grates.
13. See Standard Plan D78A for gutter depression details.
14. Complete joint penetration butt welds may be substituted for the fillet welds on all anchors.
15. Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
16. Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet, and concrete poured in one continuous operation. Precast inlets shall have mortared connections conforming to details for Type GCP Inlet shown on Standard Plan D75B. See Standard Specifications for mortar composition.
17. ALL REFERENCES TO STANDARD PLAN DETAILS IS TO CALTRANS STANDARD PLANS, 2010.



SECTION B-B PLAN

TYPE GO

TABLE A

CONCRETE QUANTITIES

TYPE	H=3'-0" TO 8'-0" (T=6")		H=8'-1" TO 20'-0" (T=8")	
	H=3'-0" (CY)	ADDITIONAL PCC PER FOOT (CY)	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
GO	1.24	0.245	3.39	0.346
GDO	1.62	0.322	4.36	0.446

Table based on 8" floor slab and curb type giving highest quantity of concrete. No deductions or adjustments are to be made to these quantities because of pipe openings, different floor alternatives or different curb type.

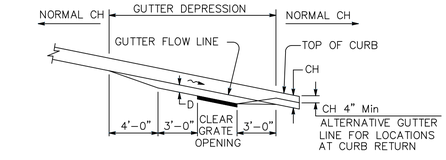
TABLE B

CURB TYPE	NORMAL CURB HEIGHT	CURB BATTER	"a" DIMENSION	"b" DIMENSION
A1-6	6"	11/2"	T+71/2"	T+61/2"
A1-8	8"	2"	T+7"	T+6"
B1-6	6"	4"	T+5"	T+4"
TYPE A DIKE	6"	3"	T+6"	T+5"

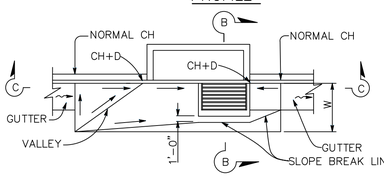
2 TYPE GO DRAINAGE INLET

GO DRAINAGE INLET NOTES

1. "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
2. For "T" wall thickness, see Table A below.
3. Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 @ 1'-6"± centers placed 11/2" clear to inside of box unless otherwise shown.
4. Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom.
5. Steps - None required where "H" is less than 2'-6" Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Step inserts may be substituted for the bar steps. Step Inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
6. When shown on the project plans, place a 3/4" plain round protection bar horizontally across the length of the opening and bend back 4" into the inlet wall on each side.
7. Pipe(s) can be placed in any wall.
8. Curb section shall match adjacent curb.
9. Basin floors shall have wood trowel finish and shall slope toward the outlet pipe as shown.
10. See Standard Plan D77A and D77B for grate and frame details and weights of miscellaneous iron and Steel. All grates shall be 24X12X bicycle proof grates.
11. See Standard Plan D78A for gutter depression details.
12. Complete joint penetration butt welds may be substituted for the fillet welds on all anchors.
13. Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
14. Cast-in-place inlets to be formed around all pipes/stubS intersecting the inlet and concrete poured in one continuous operation. precast inlets shall have mortared pipe connections conforming to details for type gcp inlets on standard plan d75b. see standard specifications for mortar composition.
17. ALL REFERENCES TO STANDARD PLAN DETAILS IS TO CALTRANS STANDARD PLANS, 2010.



PROFILE



PLAN

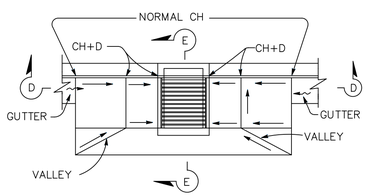
TYPE GOL INLET ON GRADE

NOTES:

1. W= Width of depressed apron. Depressed aprons shall be 4'-0" on shoulder and 4'-0" to 6'-0" in city street gutters unless otherwise shown. D= Gutter depression. The gutter depression shall be 11/4" for shoulder and 11/4" to 3" in city street gutter or locations outside of shoulder unless otherwise shown.

CH = Curb Height.
→ = Straight grade, downward slope.
~~ = Gutter or shoulders direction of flow.

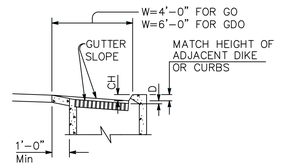
2. Gutter depressions shall be 8" thick. midpoint
3. Establish curb opening height at of grate.
4. Details shown for concrete pavement. When hot mix asphalt pavement is used, corners to be cut off as shown on Detail of Hot Mix Asphalt Pavement.



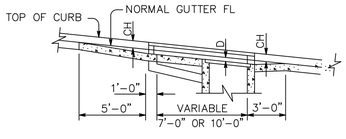
PLAN

TYPE GO AND GDO INLET GRADE SAG

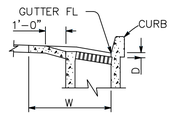
(GDO shown)



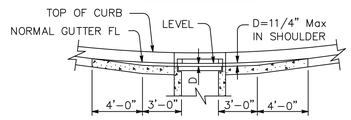
SECTION E-E



SECTION C-C



SECTION F-F



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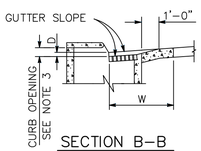
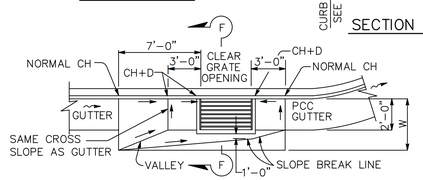


SECTION B-B



PLAN

TYPE GO AND G1 THRU G6 INLETS ON GRADE

3 DRAINAGE INLET GUTTER PANS

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	NRA
DATE: FEB. 2016		REVIEWED BY:	CAM

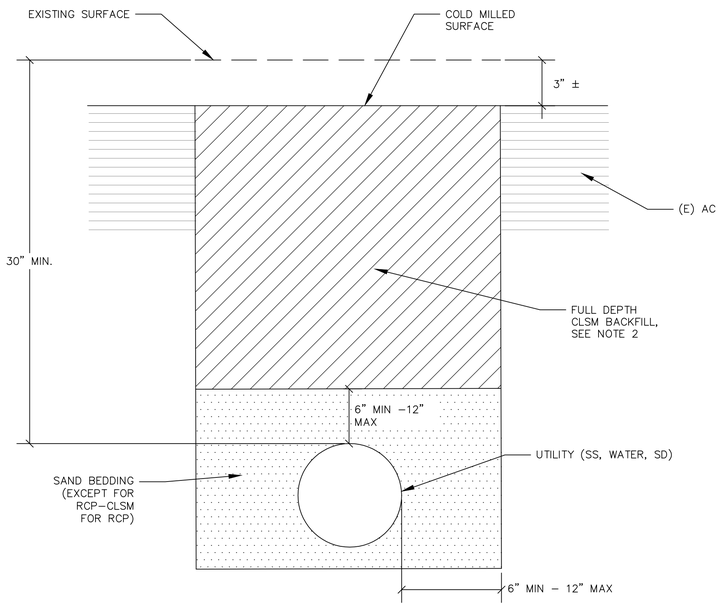
DRAINAGE DETAILS

CITY OF LAKEPORT

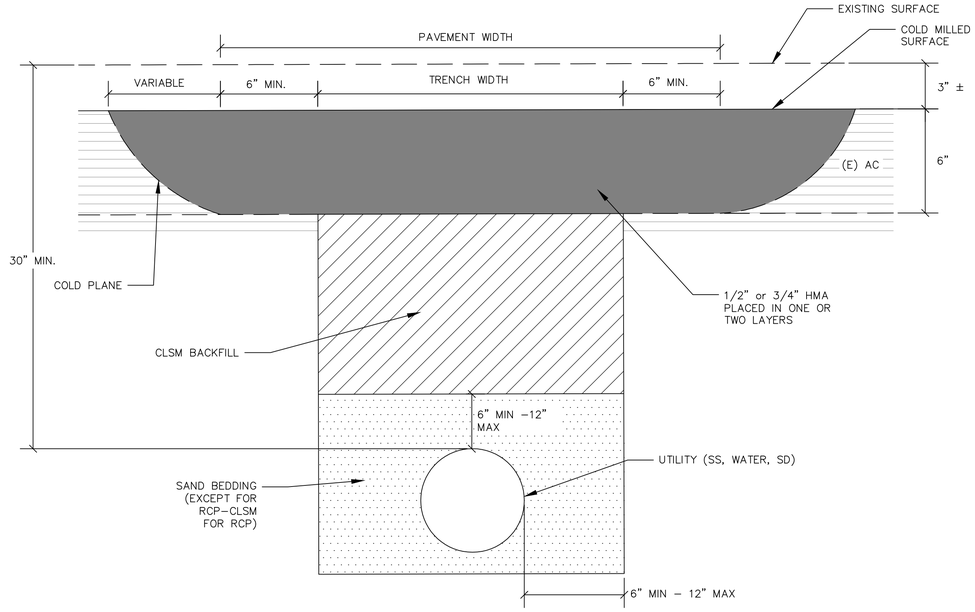
DRAWING NUMBER CD-5 OF 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-DETAILS UTIL-DRAIN-TRAF.dwg Plot Date: Feb 18, 2016 at 14:27



1A **UTILITY TRENCH IN ALL OTHER AREAS**



1B **UTILITY TRENCH IN FULL DEPTH AC IN TRAVEL LANES ONLY**

NOTES:

1. PAVEMENT FOR TRENCH COLD PLANE LIMITED TO 6" BEYOND PLANNED TRENCH WIDTH.
2. FULL DEPTH CLSM SHALL BE PLACED FOR INTERIM CONDITION UNTIL PAVEMENT REHABILITATION IS PERFORMED. DEPTH OF FINAL PAVEMENT AS SHOWN ON SHEET TS–1 THROUGH TS–4.
3. WHERE WARRANTED AND AT THE DISCRETION OF THE CITY ENGINEER, TRENCH PLATES MAY BE USED FOR UP TO 2 WEEKS. TRENCH PLATES SHALL HAVE A SKID RESISTANT SURFACE, SECURED WITH 24" WIDE COLLAR OF CURBACK AROUND ALL SIDES OF PLATE, AND TAPERED TO PROVIDE SMOOTH TRANSITIONS.
4. A TACK COAT OF ASPHALTIC EMULSION OR PAVING GRADE ASPHALT SHALL BE APPLIED TO EXISTING HMA PAVEMENT AT ALL CONTACT SURFACES PRIOR TO PERMANENT HMA PAVING PER SECTION 22–7 OF STANDARD SPECIFICATIONS.
5. EXISTING PAVEMENT SHALL BE SAWCUT AND REMOVED IN SUCH A MANNER AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL WHEN PRACTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE.
6. R.C. – RELATIVE COMPACTION AS DETERMINED BY ASTM DESIGNATION D 1557 AND CITY STANDARDS.
7. NO SOLID BLOCKING PERMISSIBLE BENEATH PIPE.
8. JETTING BACKFILL IS NOT PERMITTED.
9. ALL BACKFILL SHALL BE CONTROLLED LOW DENSITY (CLSM) IN CONFORMANCE WITH PROJECT SPECIFICATION.

1 **TRENCH DETAIL**

BID SET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9–30–17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9–30–17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	NRA
DATE: FEB 2016		REVIEWED BY:	CAM

UTILITY DETAILS

CITY OF LAKEPORT

DRAWING NUMBER CD–6 of 70 SHTS

Xrefs: LDI_CX–TBLOCK.dwg
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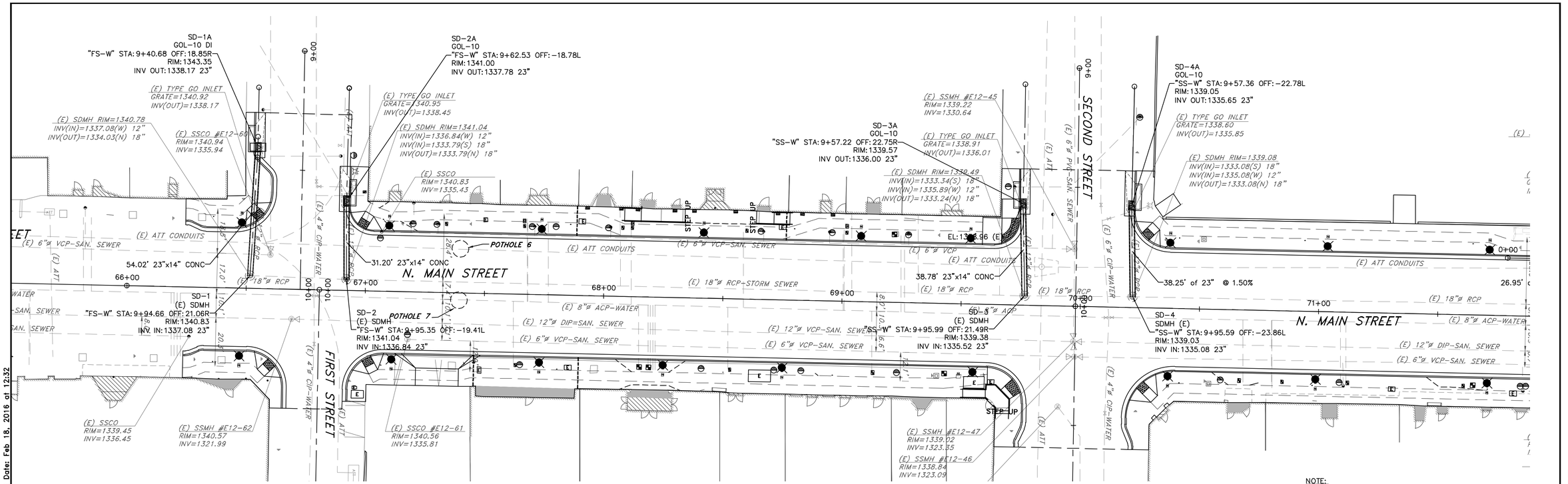
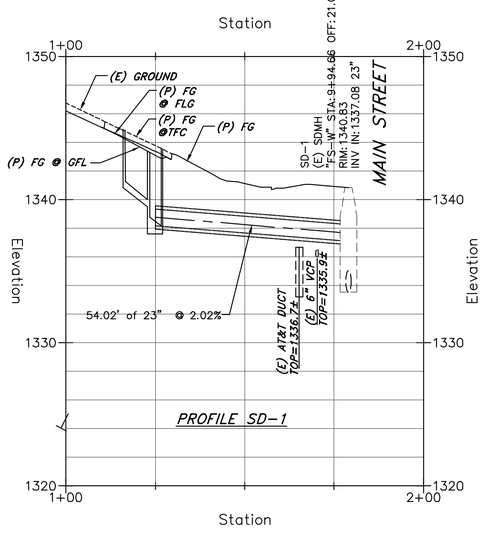
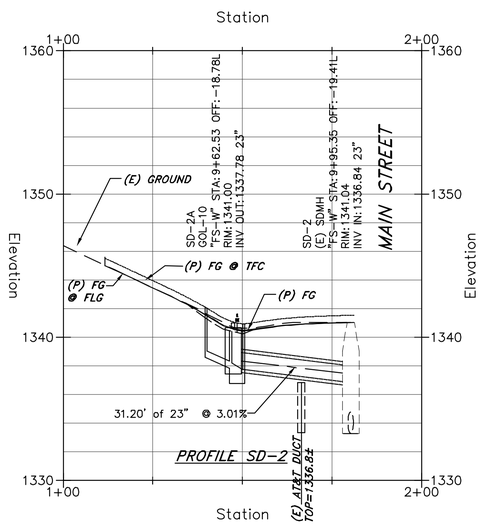


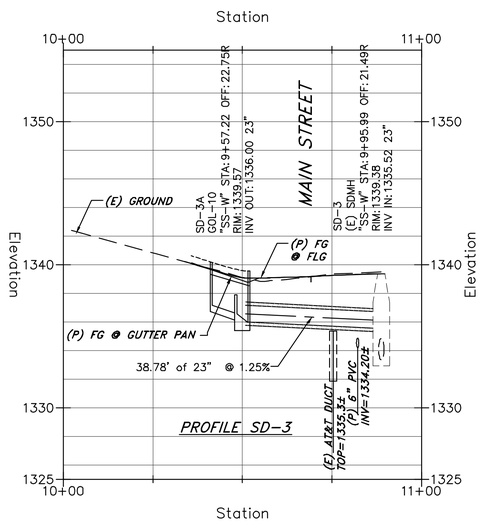
NOTE:
ALL STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURE UNLESS OTHERWISE INDICATED.



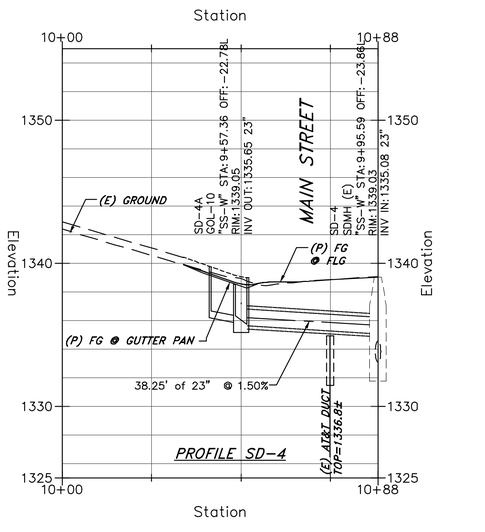
Profile View of SD-1 ALIGN



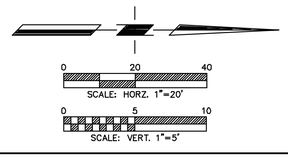
Profile View of SD-2



Profile View of SD-3



Profile View of SD-4



PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17
VERIFY SCALE	
0 1/2 1 2 3	
BAR REPRESENTS THREE INCHES ON ORIGINAL	

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
S. MAIN STREET — LAKEPORT, CA.

SCALE:	1"=20'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2016		REVIEWED BY: CAM

STORM DRAIN PLAN & PROFILE
FIRST ST. & MAIN ST./SECOND ST. & MAIN ST.

CITY OF LAKEPORT — DRAWING NUMBER SD-1 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-TBLOCK.dwg; LDI_CX-BASE_NoBulbouts.dwg; R09109_POINTS.dwg
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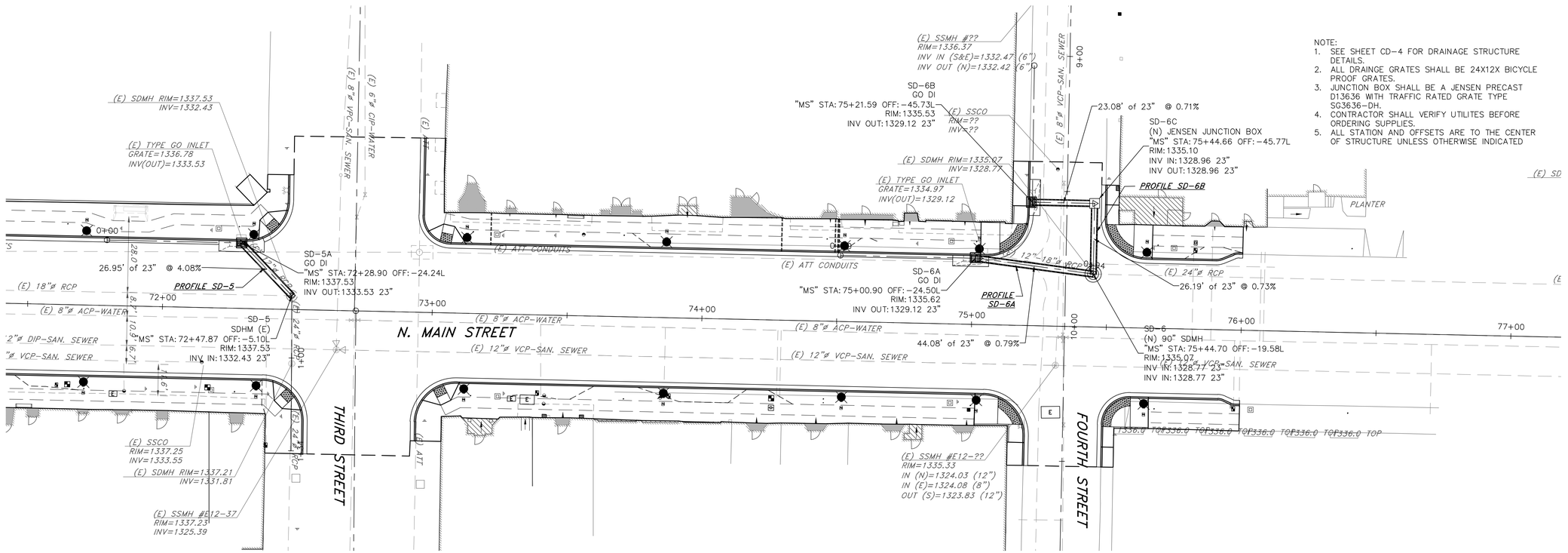

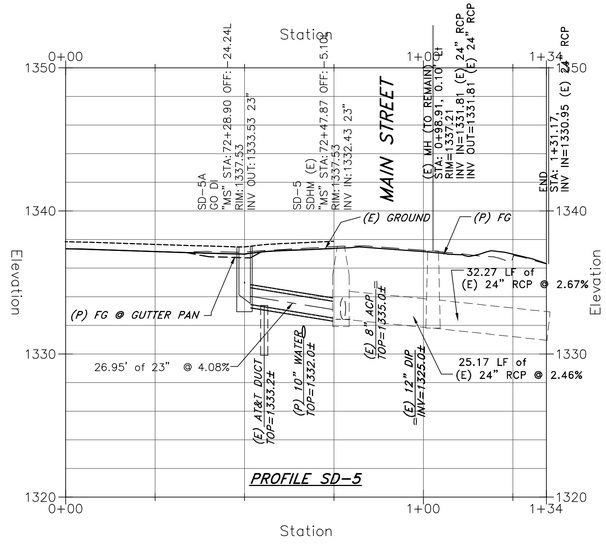

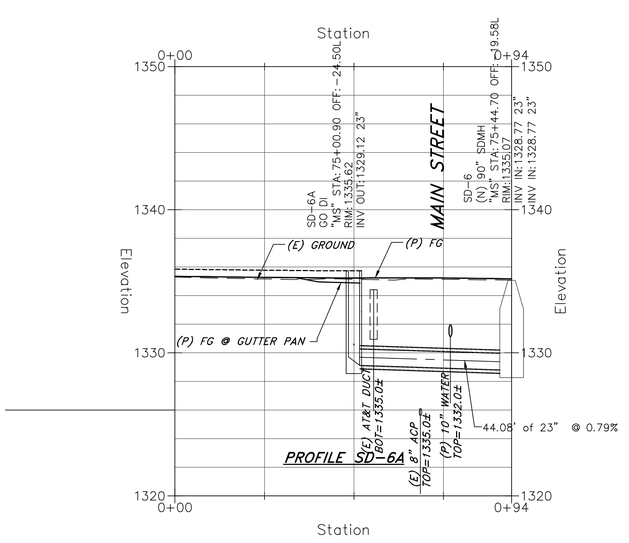

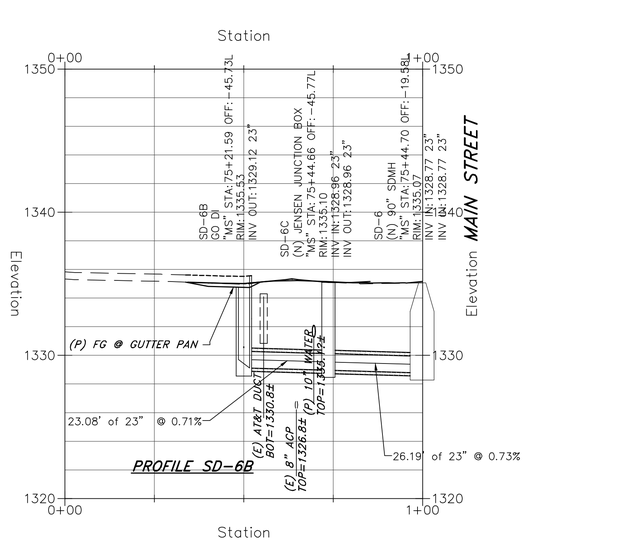

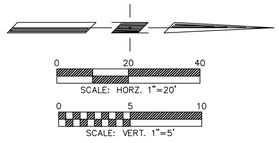

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17
VERIFY SCALE	
0 1/2 1 2 3	
BAR REPRESENTS THREE INCHES ON ORIGINAL	

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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100 N Pine Street
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100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
MAIN STREET LAKEPORT, CA.

SCALE:	1"=20'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2016		REVIEWED BY: CAM

STORM DRAINAGE PLAN & PROFILE
THIRD ST. & MAIN ST./FOURTH ST. & MAIN ST.

CITY OF LAKEPORT

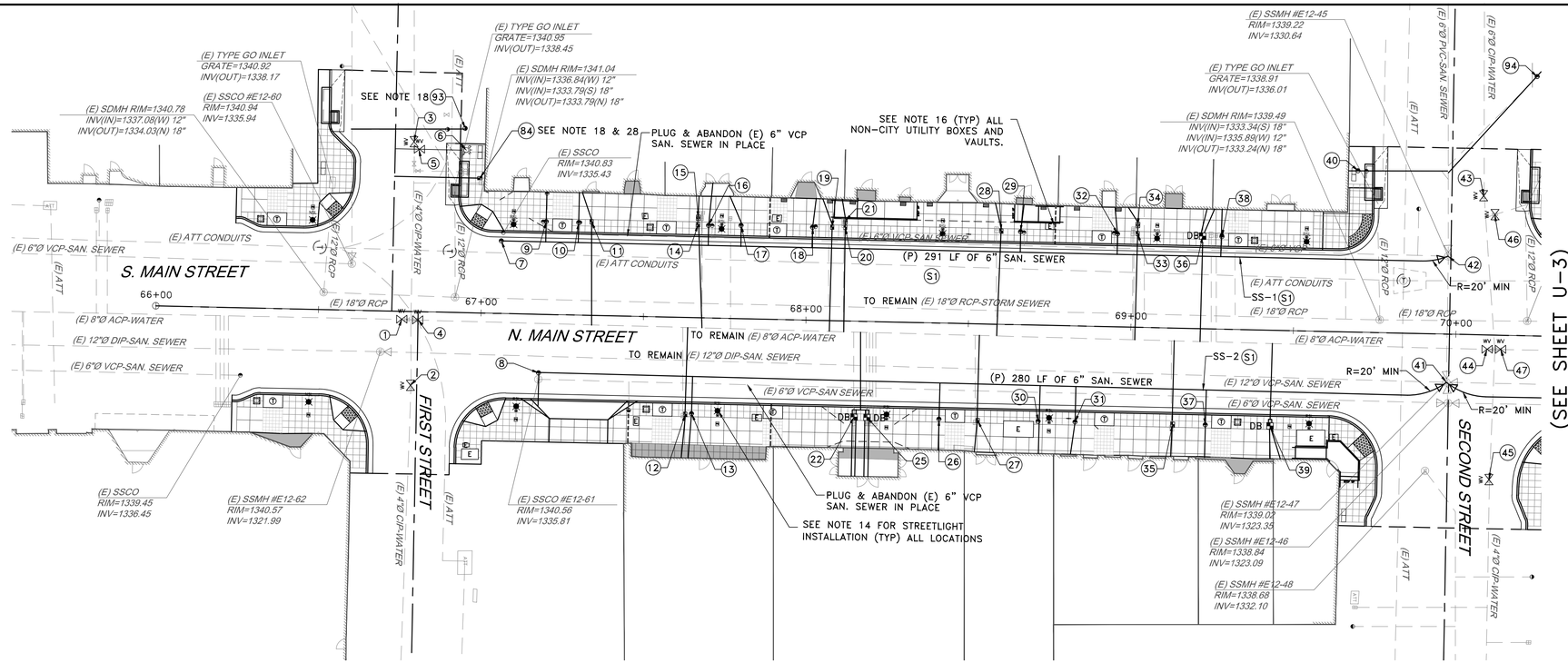
DRAWING NUMBER SD-2 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-TBLOCK.dwg; LDI_CX-BASE_NoBulbouts.dwg; R09109_POINTS.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-STORM_DRAIN.dwg Plot Date: Feb 18, 2016 at 12:32

UTILITY CONSTRUCTION NOTES:

1. ALL SEWER AND WATER MAIN CONSTRUCTION TO BE DONE IN CONFORMANCE WITH CITY STANDARDS (2012).
2. SEE WATER NOTES CITY STND NO. 500.
3. ALL EXISTING SEWER AND WATER SERVICE LATERALS AND WATER VALVES WITHIN THE PROJECT LIMITS ARE TO BE REPLACED, UNLESS NOTED OTHERWISE. FULL REPLACEMENT SHALL BE FROM MAIN TO BUILDING WALL AT (E) CONNECTIONS.
4. ALL TRENCHING TO BE AS SHOWN ON DETAIL 1, SHEET CD-6.
5. LOCATION OF SIDEWALK UTILITY BOXES SHALL BE AS SHOWN ON DETAIL-1, SHEET CD-2.
6. WHERE NEW SEWER AND WATER CONNECTIONS ARE PROVIDED, AND NO EXISTING CONNECTION EXISTS, LATERAL STUBS SHALL BE CONSTRUCTED TO AND THROUGH BUILDINGS AS SHOWN ON CITY STND NO. 526.
7. ALL NEW AND/OR REPLACEMENT SEWER SERVICE LATERALS SHALL BE 4" AND RECONSTRUCTED IN ACCORDANCE WITH CITY STD. NO. 309, SEE NOTE 4.
8. ALL WATER SERVICE LATERALS SHALL BE 1" UNLESS NOTED OTHERWISE. 1" LATERALS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 509.
9. WHERE NOTED, 2" WATER LATERALS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 505.
10. WHERE NOTED, DUAL WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 504, SEE NOTE 3.
11. WHERE NOTED, QUAD 1" WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 521.
12. PRESSURE REDUCING VALVES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STND NO. 517 AND 518.
13. WATER VALVES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 501.
14. METERS SHALL BE INSTALLED BY THE CONTRACTOR. SALVAGED METERS SHALL BE TAGGED TO IDENTIFY THE EXISTING SERVICE AND REINSTALLED AT SAME SERVICE WHEN RECONSTRUCTED.
15. SEE SHEET D-1 THROUGH D-4 FOR ITEMS REMOVED.
16. ALL STATION REFERENCES ARE TO CENTER OF BOXES. LOCATION OF CONNECTIONS AT BUILDINGS AND AT MAINS ARE EXISTING/DESIGN LOCATIONS AS SHOWN ON THE PLAN AND PROFILE, OR AS DIRECTED BY THE ENGINEER.
17. SEE SHEET E1-E4 FOR STREETLIGHT CONSTRUCTION.
18. SEE SHEETS SD-1 THROUGH SD-2 FOR STORM DRAIN CONSTRUCTION.
19. PGE UTILITY BOXES AND VAULTS TO BE RESET/RELOCATED BY OTHERS.
20. CITY WATER METER AND IRRIGATION CONTROLLER TO BE RELOCATED. SEE SHEETS D-2 FOR DEMOLITION AND SHEETS LI-2 FOR RELOCATION OF CONTROLLER. RELOCATED METER PER SHEET U-3.
21. WATER LATERAL SHALL CLEAR STRUCTURE AS NOTED ON CITY STD. NO. ?.
22. WHERE UTILITY IS REPLACED OUTSIDE LIMITS OF PAVING, ALL SIDEWALK AND ROADWAY SHALL BE REPLACED IN ACCORDANCE WITH CITY STANDARD. SIDEWALK SHALL BE REPLACED TO NEAREST SCORE-LINE.
23. TRENCHING SHALL BE DONE IN ACCORDANCE WITH DETAIL 1, SHEET CD-6 FOR ALL WORK WITHIN PAVING LIMITS. FOR WORK OUTSIDE PAVING LIMITS ALL WORK SHALL BE DONE IN CONFORMANCE WITH CITY STD. NO. 222.
24. SSMH CONNECTIONS SHALL BE INSIDE DROPS PER CITY STD. NO. 304.
25. MULTIPLE COMBINED WATER METER SERVICES (QUAD OR TRIPLE) SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD. NO. 521.
26. FIRE HYDRANTS SHALL BE RESET IN ACCORDANCE WITH CITY STD. NO. 502.
27. RODDING INLET SHALL BE CONSTRUCTED PER CITY STD. NO. 307. 6" MAIN MAY HAVE 20' LONG RADIUS SWEEPS JUST UPSTREAM OF SSMH.
28. A MINIMUM OF 6" CLEARANCE SHALL BE PROVIDED FROM ALL STRUCTURES.



(SEE SHEET U-2 FOR PROFILES OF SS-1 AND SS-2)

BID SET

UTILITY CONSTRUCTION ITEM

- (S1) CONSTRUCT 6" SANITARY SEWER MAIN
- (S2) CONSTRUCT 4" SANITARY SEWER MAIN RODDING INLET AND BOX
- (S3) CONSTRUCT 4" SANITARY SEWER SERVICE, CLEANOUT, AND BOX (SHALLOW)
- (S4) CONSTRUCT 4" SANITARY SEWER SERVICE, CLEANOUT, AND BOX (DEEP)
- (S5) CONNECT 6" SS MAIN TO (E) SSMH WITH INSIDE DROP. SEE NOTE 25.
- (S6) CONSTRUCT 4" SANITARY SEWER SERVICE STUB, CLEANOUT AND BOX (SHALLOW AND DEEP)
- (W1) CONSTRUCT SINGLE 1" WATER LATERAL, METER, AND BOX
- (W2) CONSTRUCT SINGLE 2" WATER LATERAL, METER, AND BOX
- (W3) CONSTRUCT 2" WATER LATERAL, DOUBLE METERS, AND BOX
- (W4) CONSTRUCT QUAD 1" WATER SERVICES, METERS WITH 2" LATERALS AND MANIFOLD. EACH DBL METER SHALL BE IN B24 BOX. BOXES NOTED SEPARATELY.
- (W5) CONSTRUCT 1" PRV WATER IN BOX
- (W6) CONSTRUCT 4" GATE VALVE IN BOX
- (W7) CONSTRUCT 6" GATE VALVE IN BOX
- (W8) INSTALL 8" GATE VALVE IN BOX
- (W10) RESET FIRE HYDRANT
- (W11) CONSTRUCT 2" WATER LATERAL WITH THREE (3) EA. 1" WATER SERVICES AND METERS. METERS INSTALLED IN ONE (2) SINGLE B9 BOX AND ONE (1) DOUBLE B24 BOX. EACH METER BOX NOTED SEPARATELY. SEE NOTE 23.
- (W12) CONSTRUCT DOUBLE 1" PRV IN B24 BOX
- (W13) RELOCATE FIRE HYDRANT
- (W14) CONSTRUCT 1" WATER SERVICE STUB AND BOX. NO METER.

KEY NOTES

Structure Table

Structure Name	RIM EL	STATION	OFFSET	ITEM ID
1	1340.98	MS66+75.7	2.41, R	W5
2	1340.39	MS66+78.8	22.71, R	W6
3	1342.85	MS66+78.3	−52.28, L	W6
4	1341.01	MS66+80.7	2.47, R	W8
5	1342.52	MS66+79.9	−49.88, L	W7
6	1342.75	MS66+94.4	−50.03, L	W13
7	1340.83	MS67+05.8	−22.30, L	S2
8	1340.66	MS67+18.1	18.03, R	S2
9	1341.30	MS67+19.5	−28.59, L	S3
10	1333.31	MS67+29.5	−28.50, L	S3
11	1341.41	MS67+33.4	−28.81, L	W1
12	1340.73	MS67+63.5	29.81, R	W1
13	1340.73	MS67+65.5	29.58, R	S3
14	1341.49	MS67+66.2	−28.63, L	W1
15	1341.52	MS67+66.2	−30.76, L	W5
16	1341.47	MS67+69.5	−28.58, L	S3
17	1341.45	MS67+79.5	−28.66, L	S3
18	1341.39	MS68+01.5	−28.60, L	S3
19	1341.37	MS68+07.5	−28.79, L	W1
20	1341.36	MS68+11.4	−28.74, L	W1

Structure Table

Structure Name	RIM EL	STATION	OFFSET	ITEM ID
21	1341.39	MS68+11.4	−30.82, L	W5
22	1340.73	MS68+15.5	29.50, R	W4
25	1340.71	MS68+19.4	29.52, R	W4
26	1340.31	MS68+41.6	29.61, R	S3
27	1340.05	MS68+53.5	29.78, R	W1
28	1341.26	MS68+59.5	−28.73, L	W1
29	1341.20	MS68+65.5	−28.60, L	S3
30	1339.69	MS68+72.1	29.59, R	S3
31	1339.40	MS68+83.4	29.58, R	S3
32	1340.98	MS68+95.3	−28.61, L	S3
33	1340.91	MS69+01.5	−28.81, L	W1
34	1340.93	MS69+01.5	−31.50, L	W5
35	1339.31	MS69+13.5	29.67, R	W1
36	1340.48	MS69+21.5	−28.50, L	W3
37	1339.31	MS69+23.5	29.58, R	S3
38	1340.30	MS69+27.4	−28.49, L	S3
39	1339.27	MS69+43.5	29.45, R	W3
40	1340.17	MS69+68.8	−49.63, L	S3
41	2008.53	MS69+97.4	14.85, R	S5
42	2008.82	MS69+97.2	−23.97, L	S5

Structure Table

Structure Name	RIM EL	STATION	OFFSET	ITEM ID
43	1339.36	MS70+07.6	−42.83, L	W7
44	1339.08	MS70+09.6	4.46, R	W8
45	1338.13	MS70+11.1	44.49, R	W6
46	1339.05	MS70+11.2	−37.09, L	W7
47	1339.05	MS70+13.9	4.32, R	W8
48	1338.96	MS70+28.6	−42.96, L	W10
49	1338.21	MS70+59.4	29.62, R	S3
50	1338.21	MS70+67.3	29.67, R	W1
51	1335.98	MS73+88.4	29.00, R	W1
52	1335.98	MS73+82.2	29.11, R	S3
53	1337.72	MS71+09.3	29.62, R	S3
54	1337.72	MS71+12.7	29.64, R	W1
55	1337.76	MS71+61.3	29.78, R	W12
56	1337.77	MS71+65.3	29.50, R	W12
57	1337.78	MS71+85.3	29.56, R	S3
58	1337.89	MS70+85.3	29.67, R	W2
59	1337.80	MS71+87.6	29.56, R	S3
60	1337.41	MS72+14.8	18.14, R	S2
61	1335.39	MS75+01.6	18.02, R	S2
62	1337.73	MS72+17.3	29.50, R	W3

Structure Table

Structure Name	RIM EL	STATION	OFFSET	ITEM ID
63	1337.63	MS72+45.1	−44.08, L	W10
64	1337.15	MS72+64.7	14.55, R	S4
65	1337.27	MS72+68.9	3.46, R	W8
66	1337.37	MS72+71.3	−34.77, L	W7
67	1337.23	MS72+73.6	3.40, R	W8
68	1337.44	MS72+74.2	−43.13, L	W7
69	1336.44	MS73+39.5	28.92, R	W1
70	1335.76	MS74+20.4	29.09, R	S3
71	1336.46	MS73+44.1	32.25, R	S3
72	1336.41	MS73+44.2	29.10, R	S3
73	1335.73	MS74+26.4	29.00, R	W3
74	1339.75	MS74+26.4	32.50, R	W11
77	1334.77	MS75+19.0	37.26, R	W10
78	1335.42	MS75+32.8	4.02, R	W8
79	1335.43	MS75+34.0	3.20, R	W7?
80	1335.38	MS75+34.0	5.24, R	W7?
81	1334.97	MS75+35.0	36.50, R	W7?
82	1335.43	MS75+33.1	−53.00, L	W7?
83	1335.40	MS75+35.2	4.06, R	W8
84	1341.69	MS66+98.8	−41.50, L	W1

Structure Table

Structure Name	RIM EL	STATION	OFFSET	ITEM ID
85	1335.25	MS75+66.2	−29.10, L	S4
86	1335.10	MS75+82.5	−29.17, L	W1
87	1335.10	MS75+82.5	−31.97, L	W5
88	1335.03	MS75+88.6	−28.98, L	S4
89	1333.41	MS75+97.6	29.17, R	W3
90	1336.90	MS73+56.2	−29.13, L	S3
93	1343.30	MS66+93.9	−56.72, L	S3
94	1341.86	MS70+23.3	−79.79, L	S3

UTILITY LEGEND

- WATER METER
- DB DUAL WATER METER
- PRESSURE RELIEF VALVE
- SANITARY SEWER CLEANOUT
- WATER VALVE
- SS SANITARY SEWER MANHOLE
- SD STORM DRAIN MANHOLE

0 20 40
SCALE: HORZ. 1"=20'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
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FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
S. MAIN STREET LAKEPORT, CA.

SCALE:	1"=20'	APPROVED BY:	
DATE:	FEB 2016	DRAWN BY:	RRH/MAW
		REVIEWED BY:	CAM

WATER & SANITARY SEWER PLAN & NOTES
STA: 66+00 TO STA: 70+00

CITY OF LAKEPORT

DRAWING NUMBER U-1 of 70 SHTS

Xrefs: LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-TBLOCK.dwg
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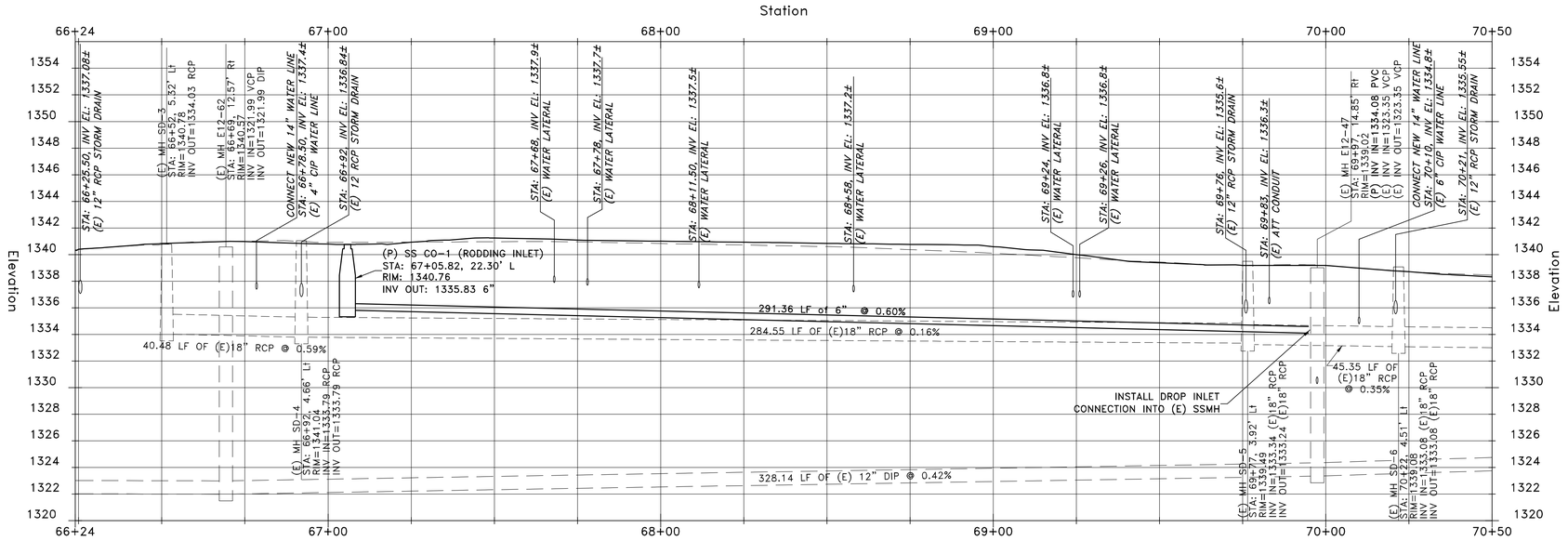
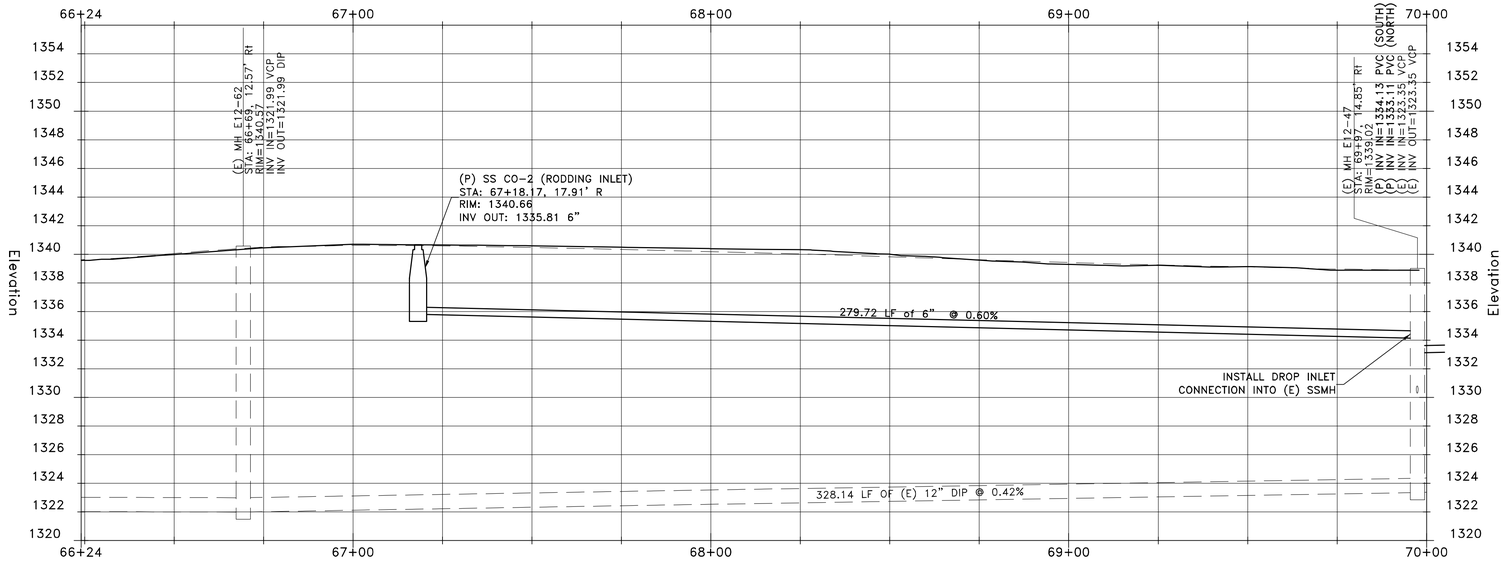


Profile of SS-1



Profile of SS-2

0 20 40
SCALE: HORZ. 1"=20'

0 5 10
SCALE: VERT. 1"=5'

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
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S. MAIN STREET LAKEPORT, CA.

SCALE:	1"=20'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

WATER & SANITARY SEWER PROFILE
STA: 66+00 TO STA: 70+00

CITY OF LAKEPORT — DRAWING NUMBER U-2 of 70 SHTS

BID SET

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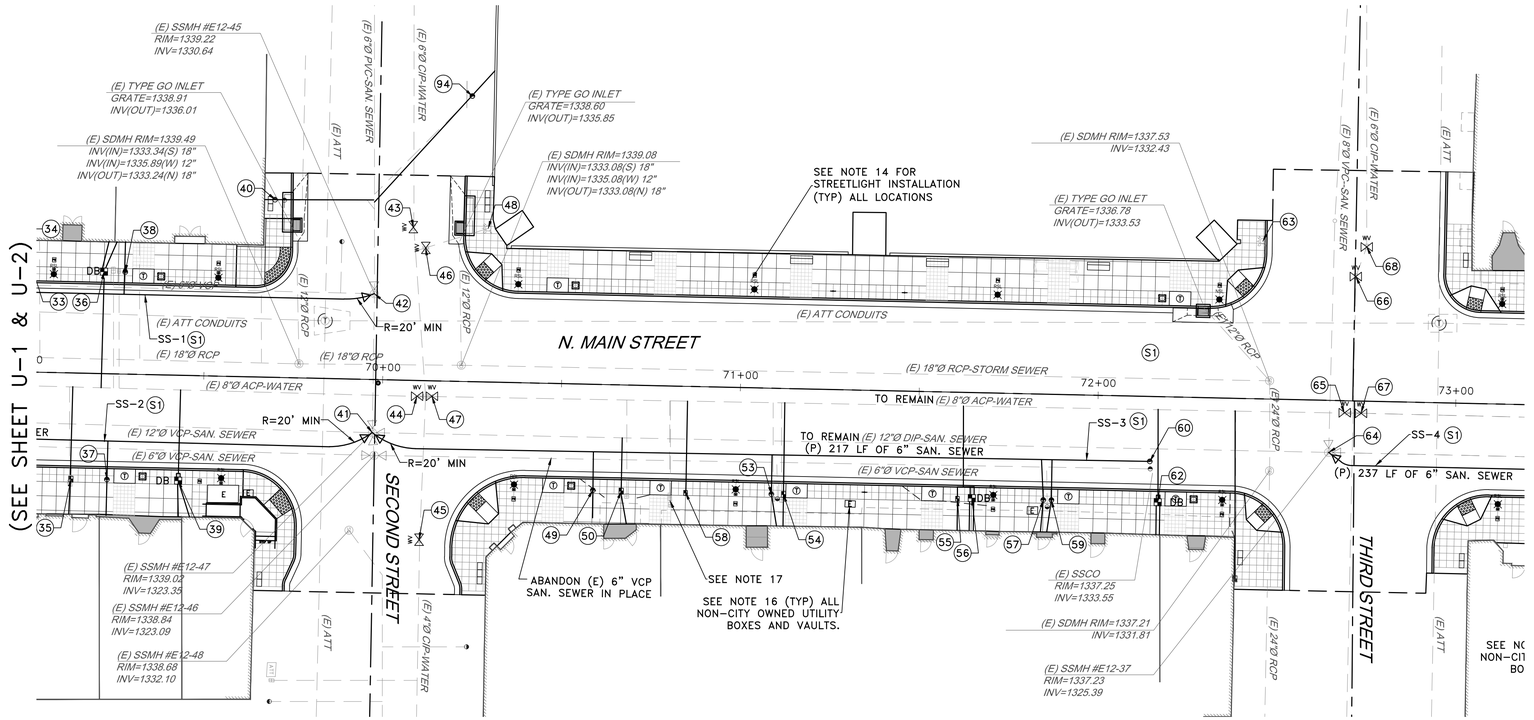

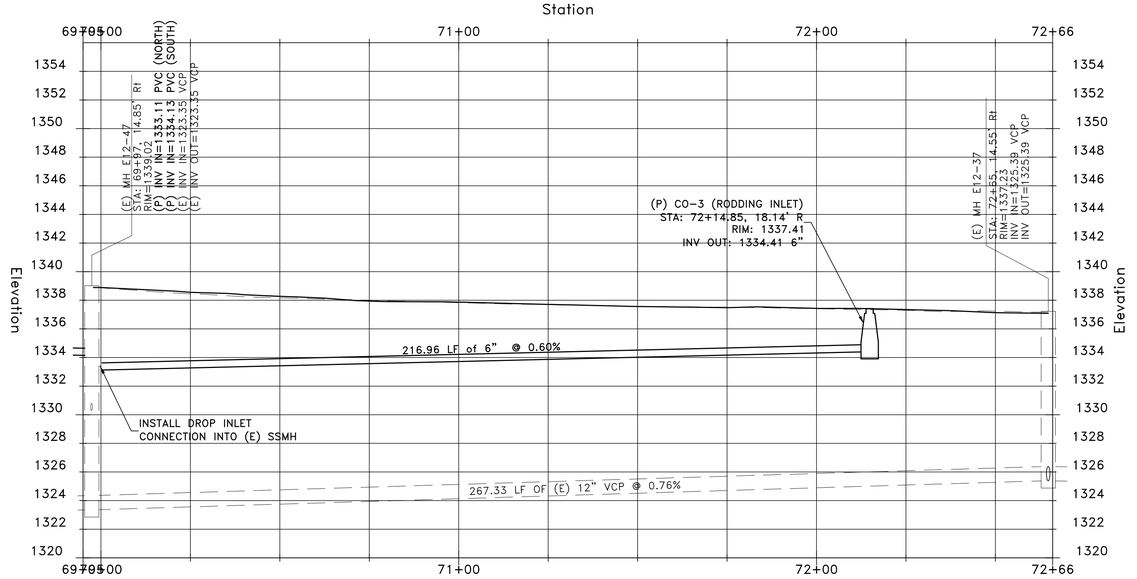

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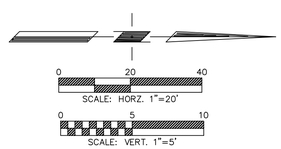

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET STREET LAKEPORT, CA.

SCALE:	1"=20'	APPROVED BY:	DRAWN BY: RRH/MAW
DATE:	FEB 2016		REVIEWED BY: CAM

WATER & SANITARY SEWER PLAN & PROFILE
STA: 70+00 TO STA: 73+50

CITY OF LAKEPORT

DRAWING NUMBER U-3 of 70 SHTS

BID SET

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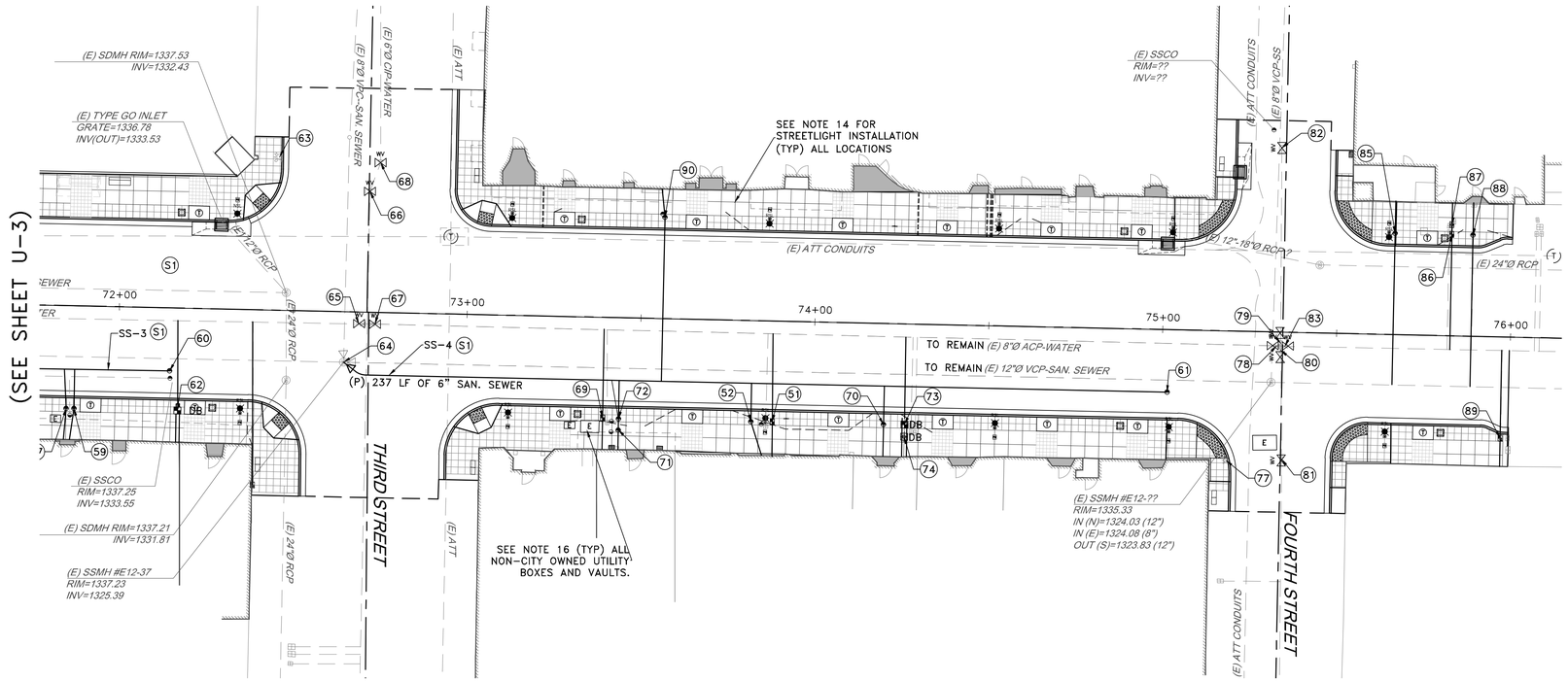

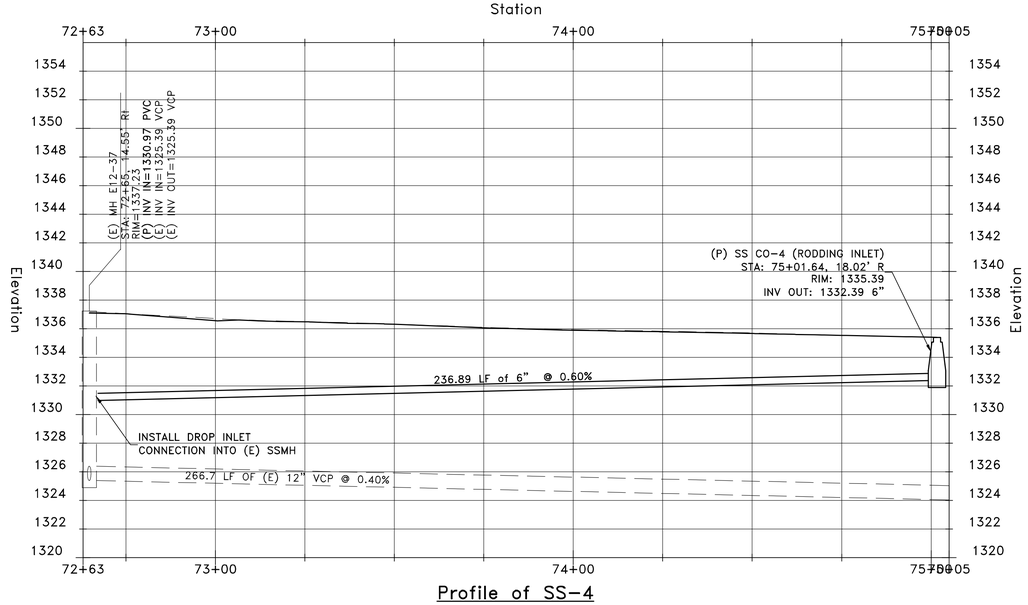

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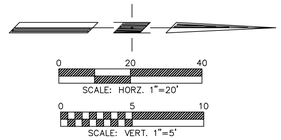

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N. MAIN STREET STREET — LAKEPORT, CA.

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DATE:	FEB 2016		REVIEWED BY: CAM

WATER & SANITARY SEWER PLAN & PROFILE
STA: STA: 73+50 TO 76+00

CITY OF LAKEPORT — DRAWING NUMBER U-4 of 70 SHTS

Xrefs: LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBullbouts.dwg; LDI_CX-ROW_APN.dwg; LDI_CX-TBLOCK.dwg
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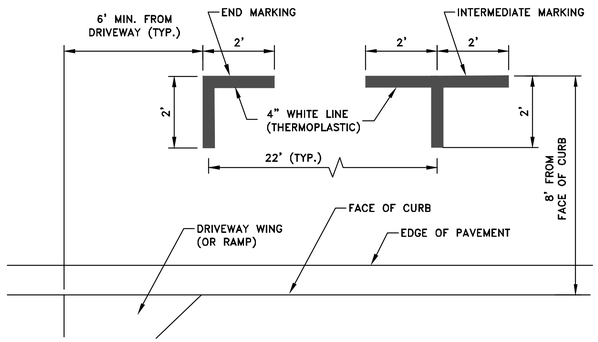
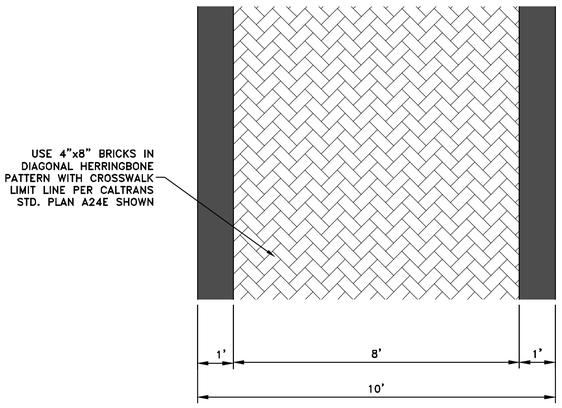
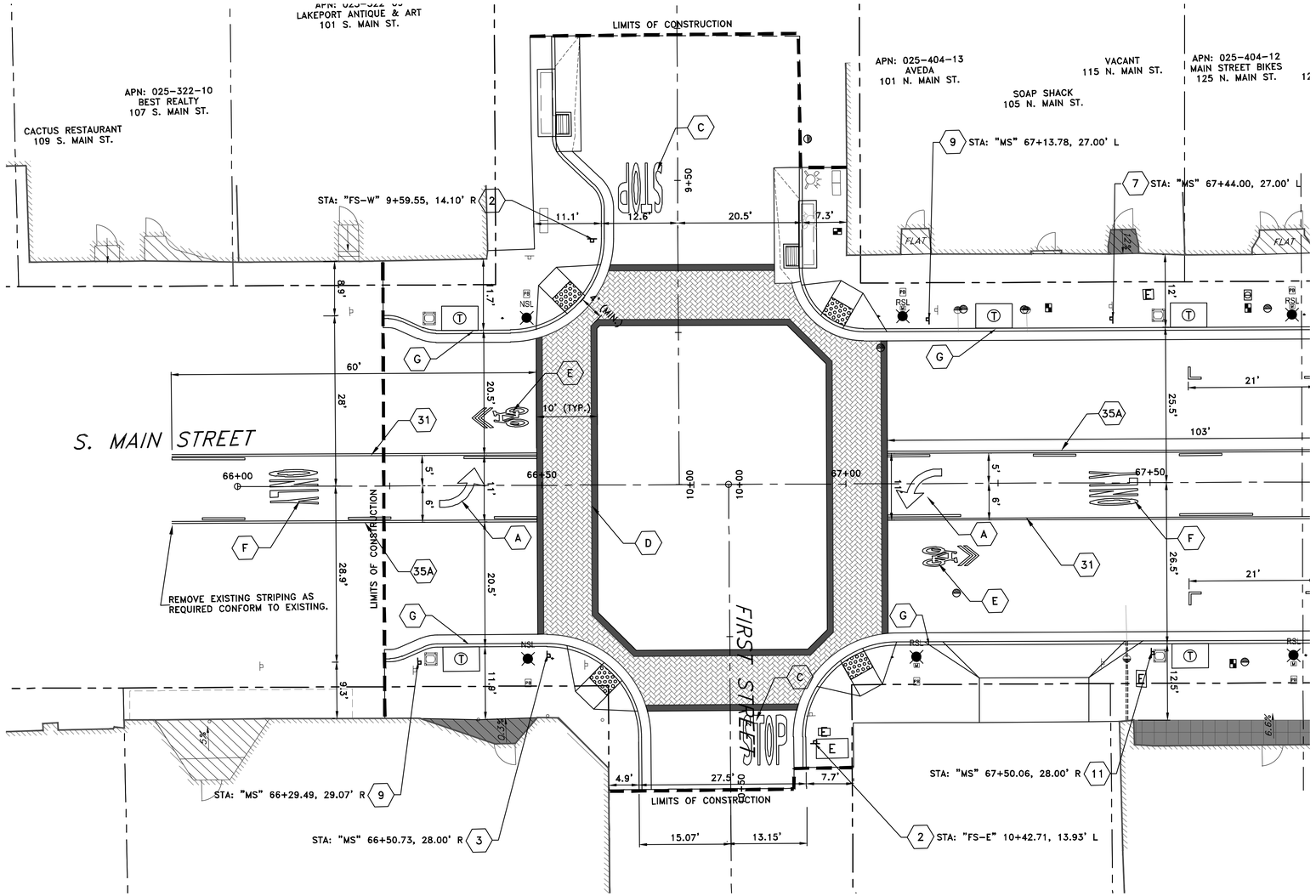


PARKING SPACE DELINEATORS



CROSSWALK PATTERN DETAIL



NOTE:

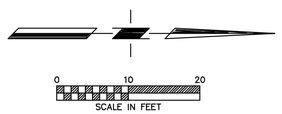
1. ALL SIGN CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY OF LAKEPORT STANDARD PLANS 207.
2. ALL STRIPING SHALL BE IN CONFORMANCE WITH CALTRANS STANDARDS PLANS 2010

SIGN KEY NOTES:

1. INSTALL STOP SIGN (R1-1)
2. INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
3. INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
4. INSTALL NO U-TURN SIGN (R8-3A)
5. INSTALL 30 MPH SIGN (R2-1)
6. INSTALL 20 MINUTE PARKING SIGN (R32 CA)
7. INSTALL 2 HOUR PARKING SIGN (R32 CA)
8. INSTALL LTA BUS STOP SIGN
9. INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
10. INSTALL NO PARKING SIGN (R26 CA)
11. INSTALL BICYCLE MAY USE FULL LANE SIGN (R4-11)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 35A PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS



PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	
DRAWN BY:	MAW		
DATE:	FEB. 2016	REVIEWED BY:	CAM

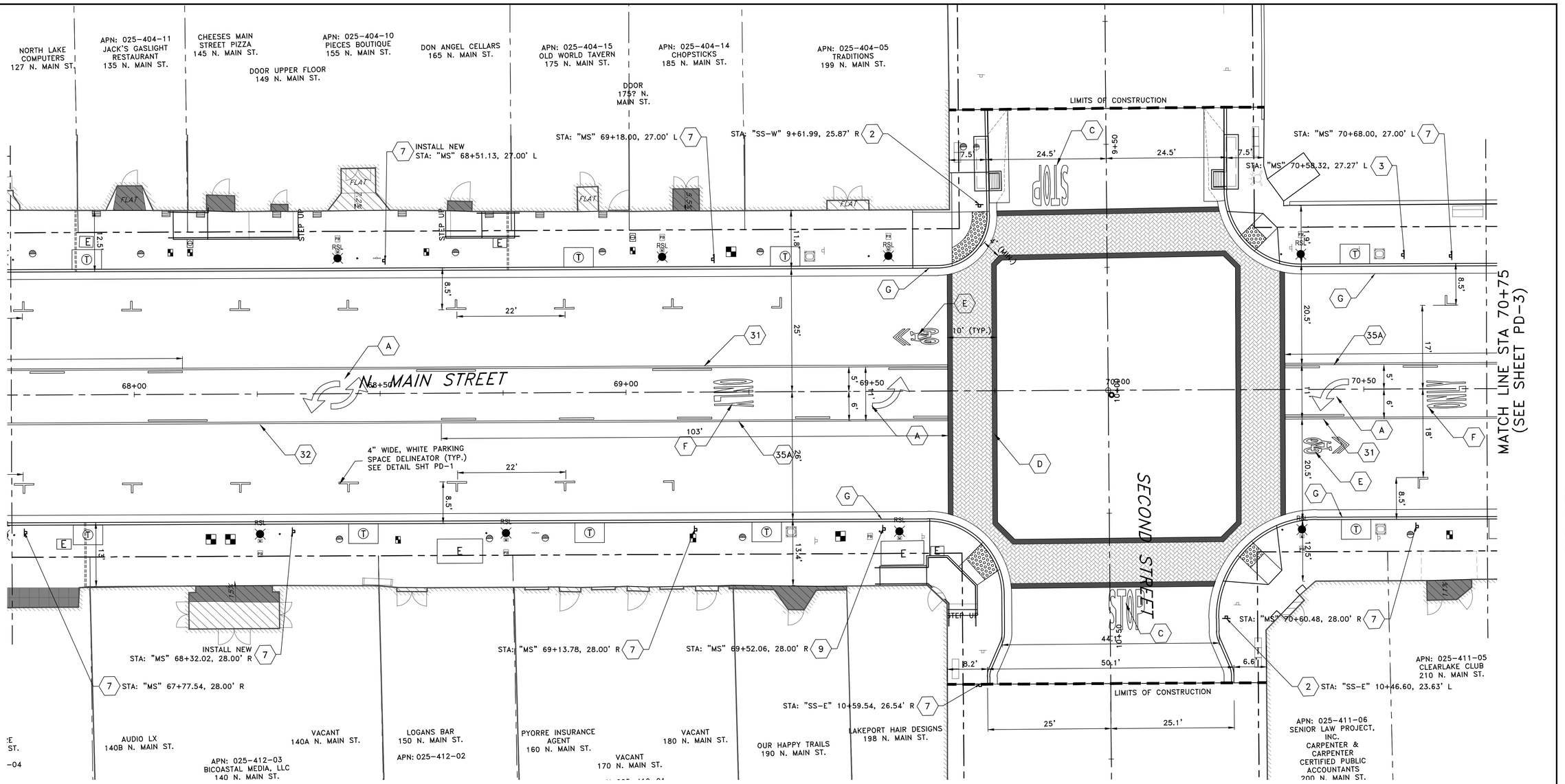
PAVEMENT DELINEATION AND SIGN PLAN
STA: 64+75 TO STA: 67+75

CITY OF LAKEPORT

DRAWING NUMBER
PD-1 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-SAVINGS BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg
Paths: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-STRIPING_SHTS.DWG Plot Date: Feb 18, 2016 at 12:33



SIGN KEY NOTES:

1. INSTALL STOP SIGN (R1-1)
2. INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
3. INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
4. INSTALL NO U-TURN SIGN (R8-3A)
5. INSTALL 30 MPH SIGN (R2-1)
6. INSTALL 20 MINUTE PARKING SIGN (R32 CA)
7. INSTALL 2 HOUR PARKING SIGN (R32 CA)
8. INSTALL LTA BUS STOP SIGN
9. INSTALL SPECIAL SIGN
   CITY OF LAKEPORT DIRECTION SIGN
10. INSTALL NO PARKING SIGN (R26 CA)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 35A PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS

0 10 20
SCALE IN FEET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

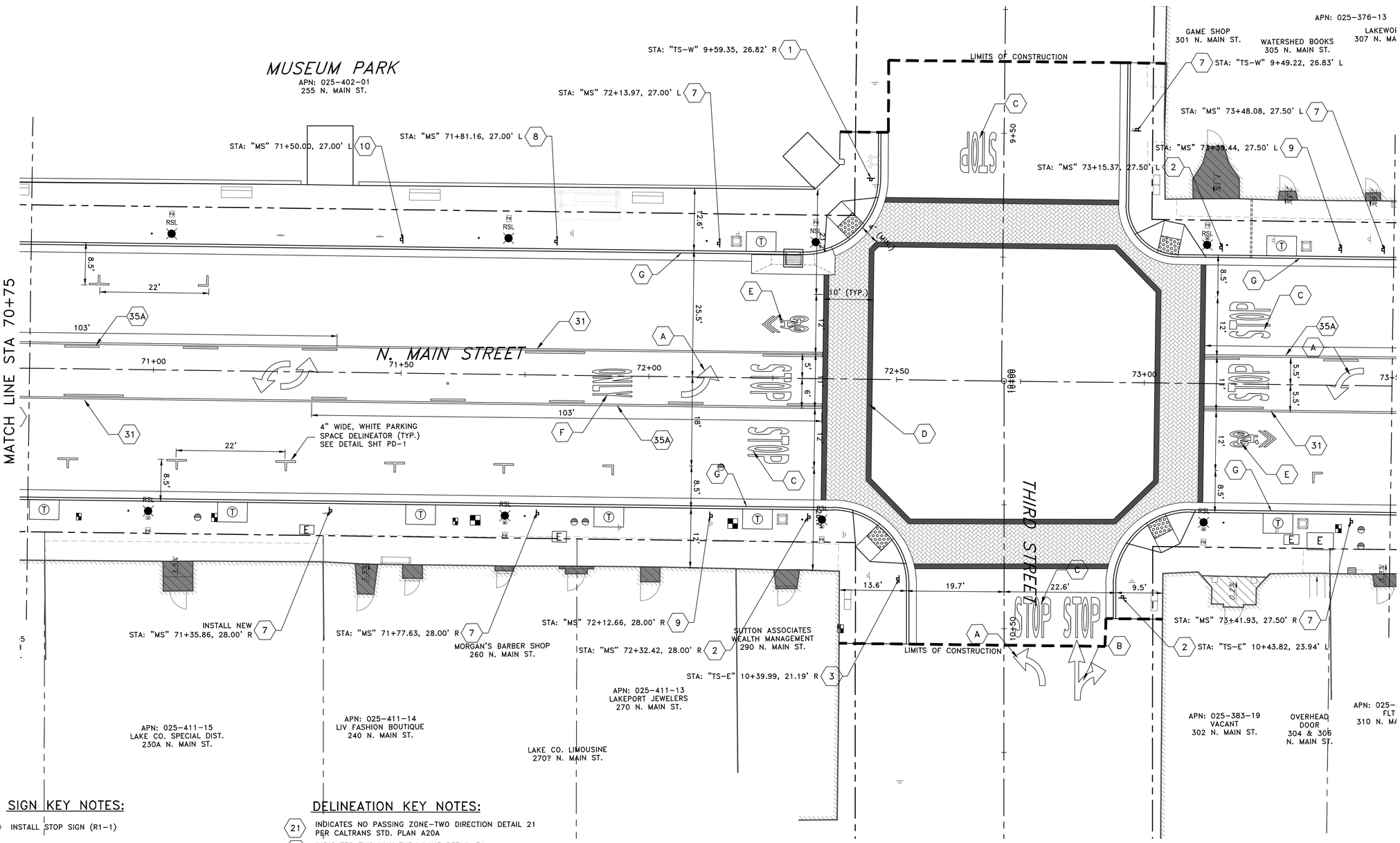
SCALE:	1"=10'	APPROVED BY:	
DRAWN BY:	MAW		
DATE:	FEB. 2016	REVIEWED BY:	CAM

PAVEMENT DELINEATION AND SIGN PLAN
STA: 67+75 TO STA: 70+75

CITY OF LAKEPORT

DRAWING NUMBER
PD-2 of 60 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-SAVINGS BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-STRIPING_SHTS.DWG Plot Date: Feb 18, 2016 at 12:33



SIGN KEY NOTES:

1. INSTALL STOP SIGN (R1-1)
2. INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
3. INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
4. INSTALL NO U-TURN SIGN (R8-3A)
5. INSTALL 30 MPH SIGN (R2-1)
6. INSTALL 20 MINUTE PARKING SIGN (R32 CA)
7. INSTALL 2 HOUR PARKING SIGN (R32 CA)
8. INSTALL LTA BUS STOP SIGN
9. INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
10. INSTALL NO PARKING SIGN (R26 CA)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 38C PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS

0 10 20
SCALE IN FEET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. MCKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.
SCALE: 1"=10' APPROVED BY:
DATE: FEB. 2016 DRAWN BY: MAW
REVIEWED BY: CAM
PAVEMENT DELINEATION AND SIGN PLAN
STA: 70+75 TO STA: 73+50
CITY OF LAKEPORT
DRAWING NUMBER PD-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-SAVINGS BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg
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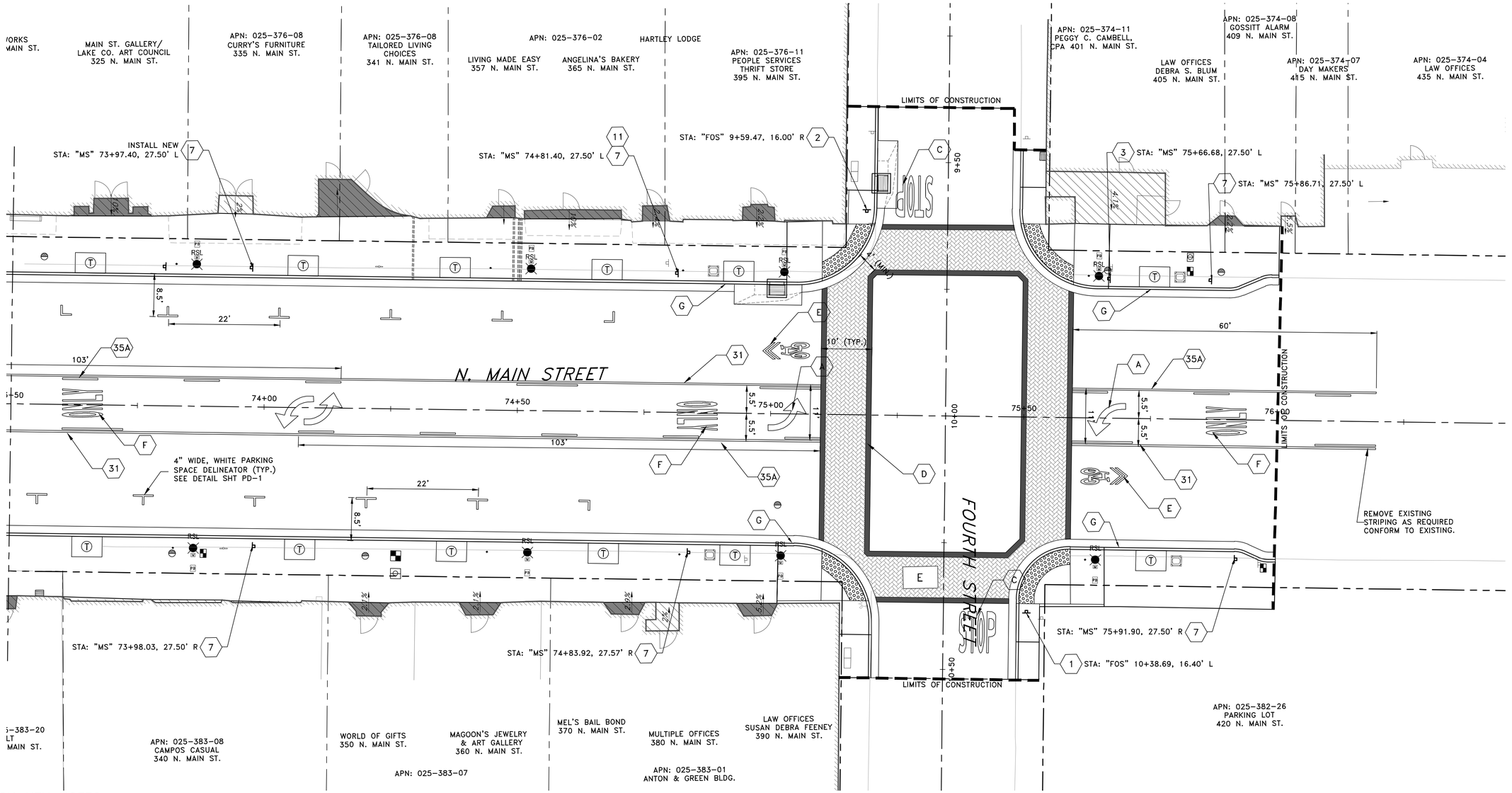

SIGN KEY NOTES:

1. INSTALL STOP SIGN (R1-1)
2. INSTALL STOP SIGN (R1-1) WITH STREET NAME SIGNS
3. INSTALL NO U-TURN SIGN (R3-4) IN BOTH DIRECTIONS
4. INSTALL NO U-TURN SIGN (R8-3A)
5. INSTALL 30 MPH SIGN (R2-1)
6. INSTALL 20 MINUTE PARKING SIGN (R32 CA)
7. INSTALL 2 HOUR PARKING SIGN (R32 CA)
8. INSTALL LTA BUS STOP SIGN
9. INSTALL SPECIAL SIGN CITY OF LAKEPORT DIRECTION SIGN
10. INSTALL NO PARKING SIGN (R26 CA)
11. INSTALL BICYCLE MAY USE FULL LANE SIGN (R4-11)

DELINEATION KEY NOTES:

- 21 INDICATES NO PASSING ZONE-TWO DIRECTION DETAIL 21 PER CALTRANS STD. PLAN A20A
- 31 INDICATES TWO WAY TURN LANE DETAIL 31 PER CALTRANS STD. PLAN A20B
- 35A INDICATES CHANNELIZING LINE DETAIL 35A PER CALTRANS STD. PLAN A20B
- A INDICATES TYPE IV ARROW PER CALTRANS STD. PLAN A24A
- B INDICATES TYPE VII(R) ARROW PER CALTRANS STD. PLAN A24A
- C INDICATES "STOP" LEGEND PER CALTRANS STD. PLAN A24D
- D INDICATES DIAGONAL HERRINGBONE PAVEMENT STAMPED PATTERN CROSSWALK (BRICK RED) WITH CROSS WALK LIMIT LINES PER DETAIL SHEET PD-1
- E INDICATES SHARED ROADWAY BICYCLE MARKER PER CALTRANS STD. PLAN A24C
- F INDICATES "ONLY" LEGEND PER CALTRANS STD. PLAN A24E
- G INDICATES PAINTING CURB RED IN ALL NON-PARKING AREAS

0 10 20
SCALE IN FEET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

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CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MAW
DATE: FEB. 2106		REVIEWED BY:	CAM

PAVEMENT DELINEATION AND SIGN PLAN
STA: 73+50 TO STA: 76+00

CITY OF LAKEPORT — DRAWING NUMBER PD-4 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-SAVINGS BANK.dwg; LDI_CX-BASE_NoBulbouts.dwg
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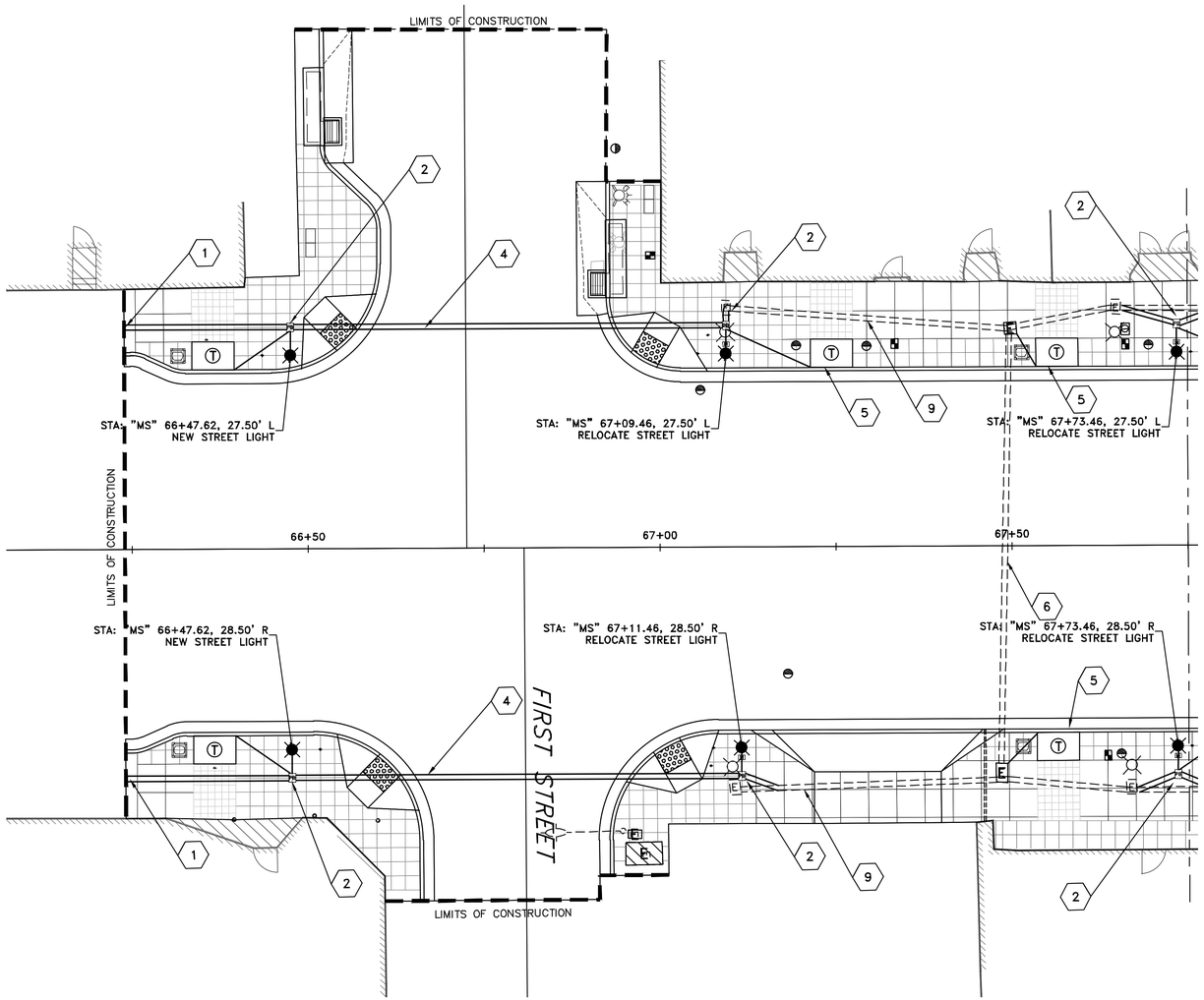

KEYNOTES

1. EXTEND TRENCH AND (3) 2" CONDUITS WITH PULL ROPES TO EDGE OF NEW CONSTRUCTION, CAP AND SEAL END OF CONDUIT. ONE CONDUIT SHALL HAVE #12 CU WIRE IN LIEU OF PULL ROPE TO AID IN LOCATING CONDUIT IN THE FUTURE.
2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08.NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.
3.
4. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.
5. DISCONNECT AND REMOVE WIRING FROM THE STREET CROSSING, INSTALL NEW PULL ROPE FOR EACH CONDUIT PRESENT.
6. DISCONNECT AND REMOVE EXISTING WIRING FROM THE STREET CROSSING, INSTALL NEW PULL ROPE FOR EACH CONDUIT PRESENT.
7.
8.
9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- EXISTING CONDUIT BANK
- NEW CONDUIT BANK

NOTES

1. INSTALL ¾" x 8' COPPER CLAD STEEL GROUND ROD IN THE LIGHT POLE PULL BOXES AT THE SOUTH EAST AND SOUTH WEST CORNERS OF 1ST STREET

0 10 20
SCALE IN FEET

MARS BURNSIDE
ELECTRICAL ENGINEERING
11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
mars@mbengineering.net
916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	LM
DATE: JUNE 2015		REVIEWED BY:	MB

ELECTRICAL LAYOUT PLAN
STA: 66+24 TO STA: 67+75

CITY OF LAKEPORT

DRAWING NUMBER
E-1 of 70 SHTS

BID SET

Xrefs: LDI-BX-TTL BLOCK.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; Seal CA Signed.dwg
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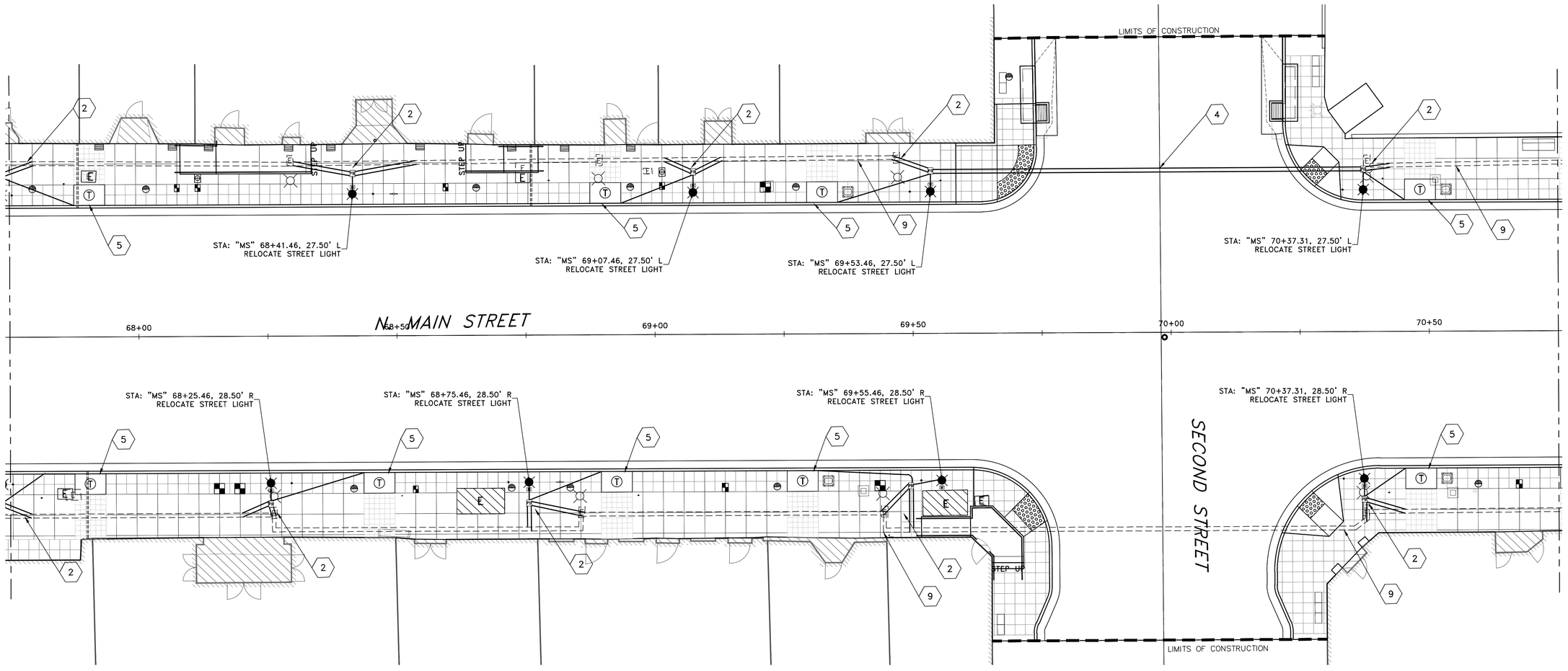


KEYNOTES

1.

2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08.NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.

3.

4. NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.

5. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.

6.

7.

8.

9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- EXISTING CONDUIT BANK
- NEW CONDUIT BANK

0 10 20
SCALE IN FEET

MARS BURNSIDE
ELECTRICAL ENGINEERING
11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
mars@mbengineering.net
916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N Pine Street
Ukiah CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

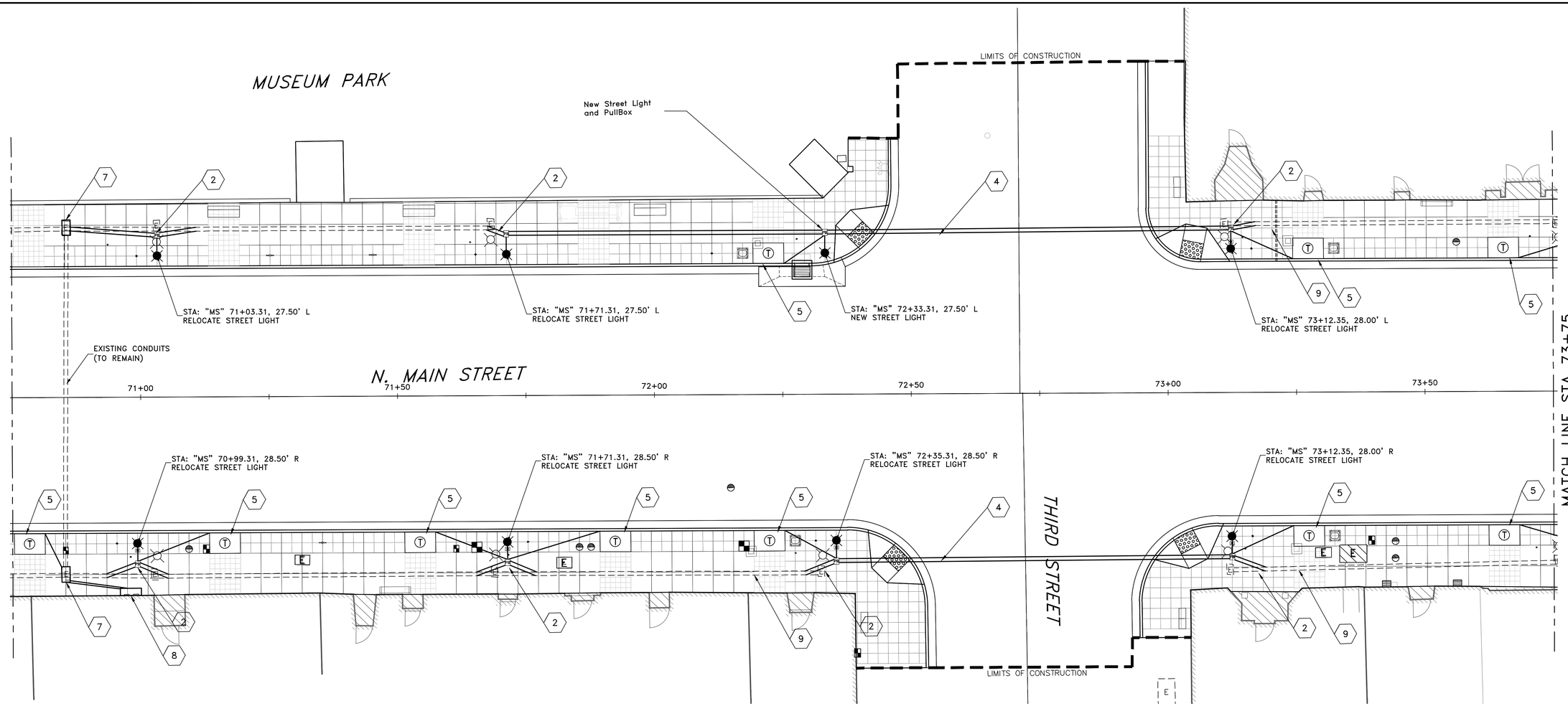
SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MB
DATE: JUNE 2014		REVIEWED BY:	LM

ELECTRICAL LAYOUT PLAN
STA: 67+75 TO STA: 70+75

CITY OF LAKEPORT | DRAWING NUMBER E-2 of 70 SHTS

BID SET

Xrefs: LDI-BX-TTL BLOCK.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; Seal CA Signed.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC.dwg Plot Date: Feb 18, 2016 at 12:33



KEYNOTES

1.

2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08.NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.

3.

4.

5. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.

6.

7. REMOVE EXISTING PULL BOX, PROVIDE NEW CHRISTY N36 OR EQUIVALENT, INSTALL PER DETAIL E-05.

8. REMOVE EXISTING SERVICE EQUIPMENT, INSTALL NEW EQUIPMENT PER DETAIL E-08.

9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- EXISTING CONDUIT BANK
- NEW CONDUIT BANK

0 10 20
SCALE IN FEET

MARS BURNSIDE
ELECTRICAL ENGINEERING
11008 RAINBOW RIVER CT. RANCHO CORDOVA, CA 95670
mars@mbengineering.net
916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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100 N. Pine Street Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

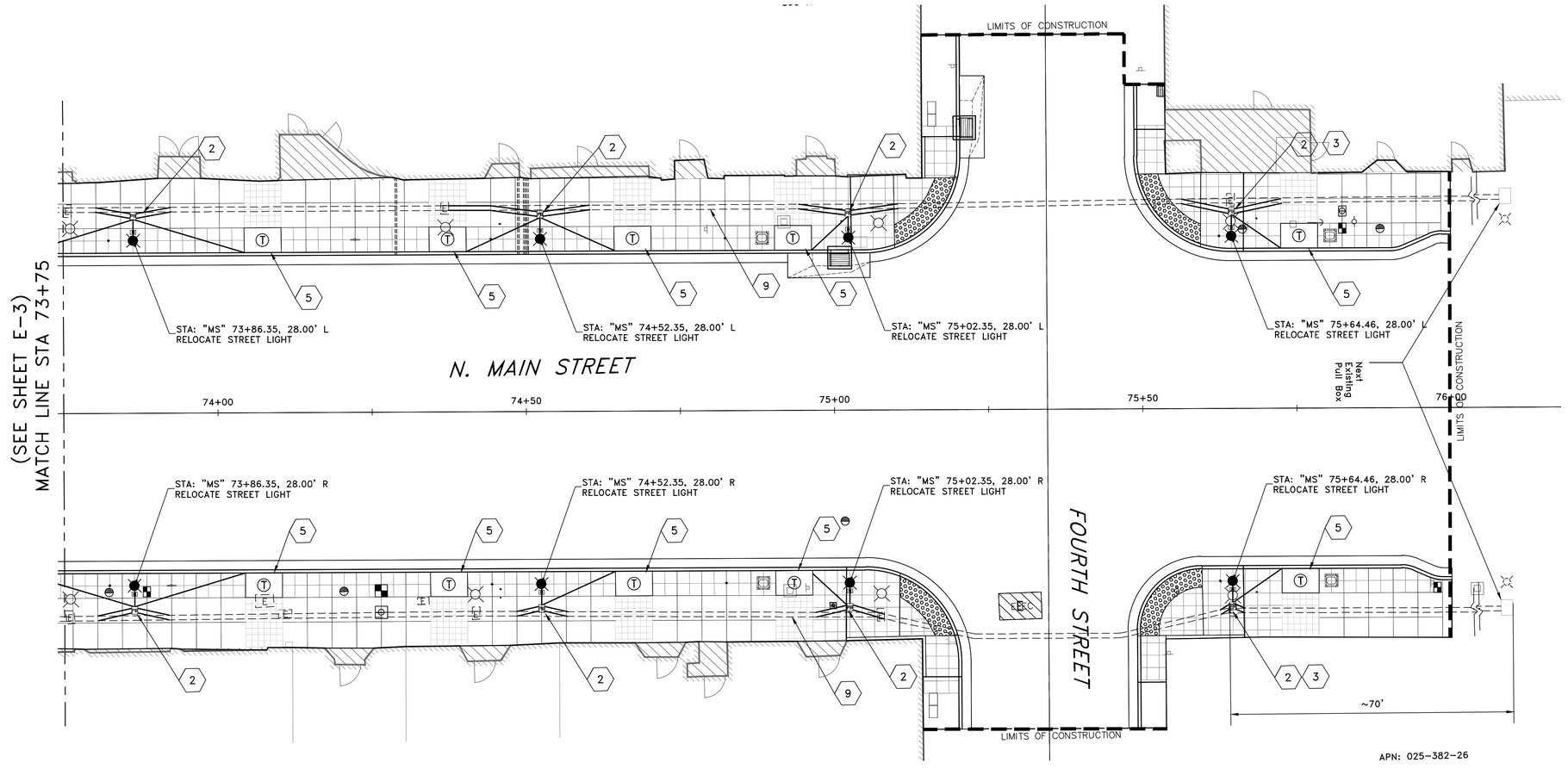
SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MB
DATE: JUNE 2015		REVIEWED BY:	LM

ELECTRICAL LAYOUT PLAN
STA: 70+75 TO STA: 73+50

CITY OF LAKEPORT — DRAWING NUMBER E-3 of 70 SHTS

BID SET

Xrefs: LDI-BX-TTL BLOCK.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; Seal CA Signed.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC.dwg Plot Date: Feb 18, 2016 at 12:34



KEYNOTES

1.

2. REMOVE EXISTING PULL BOX, EXTEND TRENCH AND CONDUIT TO NEW PULL BOX LOCATION PER LIGHT POLE AND TREE WELL CONDUIT DETAIL E-05. PROVIDE NEW CHRISTY N30 OR EQUAL PULL BOX PER DETAIL E-05. PROVIDE NEW WIRE PER WIRING DIAGRAM E-08.NEW TRENCH AND CONDUIT ACROSS STREET. TRENCH AND CONDUIT PER DETAIL E-05.

3. SPLICE NEW STREET LIGHT WIRE TO THE EXISTING WIRE RUNNING NORTH OF THE NEW PULL BOXES.

4.

5. NEW TRENCH AND CONDUIT PER DETAIL E-05, NEW OUTLET PER DETAIL E-07, NEW WIRE PER DETAIL E-08.

6.

7.

8.

9. THIS RUN DOES NOT HAVE A THIRD CONDUIT, ADD (1) 2" CONDUIT WITH PULL ROPE.

SYMBOLS AND ABBREVIATIONS

- STREET LIGHT
- EXISTING LOCATION OF STREET LIGHT TO BE RELOCATED
- EXISTING CONDUIT BANK
- NEW CONDUIT BANK

0 10 20
SCALE IN FEET

NOTES

1. INSTALL ¾" x 8' COPPER CLAD STEEL GROUND ROD IN THE LIGHT POLE PULL BOXES AT THE SOUTH EAST AND SOUTH WEST CORNERS OF 6TH STREET

2. DISCONNECT AND REMOVE WIRING FROM THE STREET CROSSING ACROSS N. MAIN STREET BETWEEN 4TH AND 5TH STREETS, NORTH OF THE END OF PROJECT, INSTALL NEW PULL ROPE FOR EACH CONDUIT.

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916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	MB
DATE: JUNE 2015		REVIEWED BY:	LM

ELECTRICAL LAYOUT PLAN
STA: 73+50 TO STA: 76+00

CITY OF LAKEPORT — DRAWING NUMBER E-4 of 70 SHTS

BID SET

Xrefs: LDI-BX-TTL BLOCK.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-ROW_APN.dwg; Seal CA Signed.dwg
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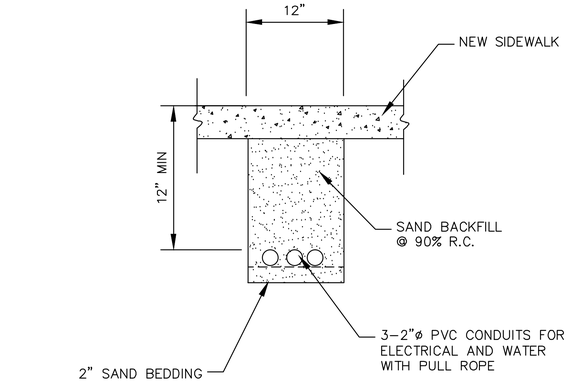
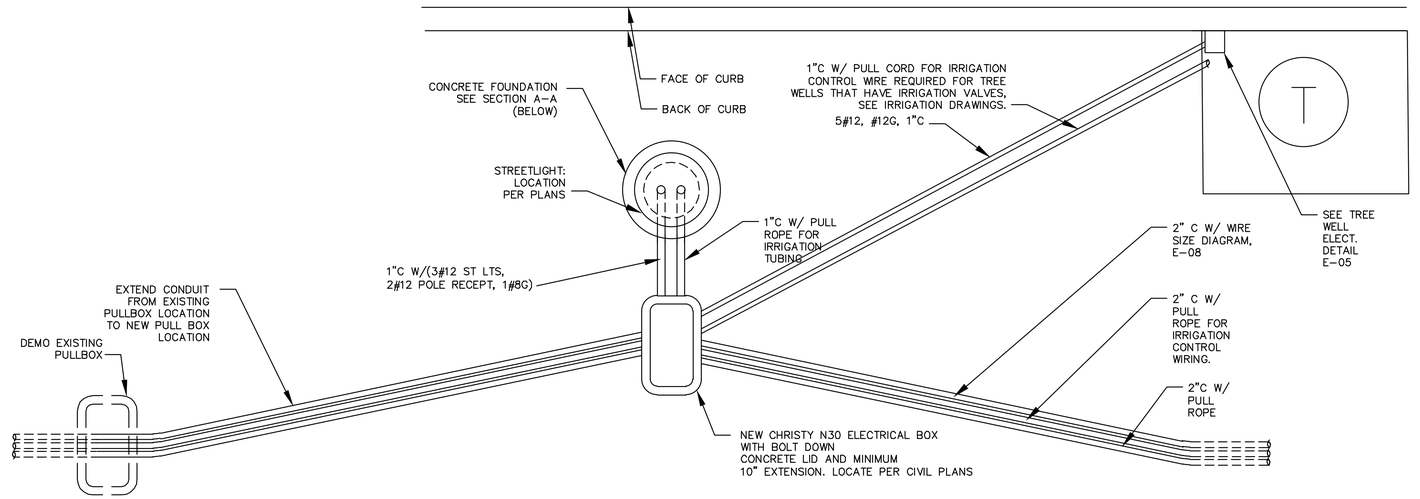
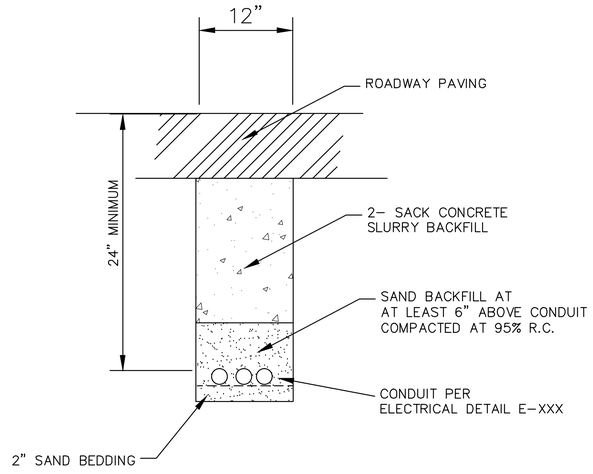


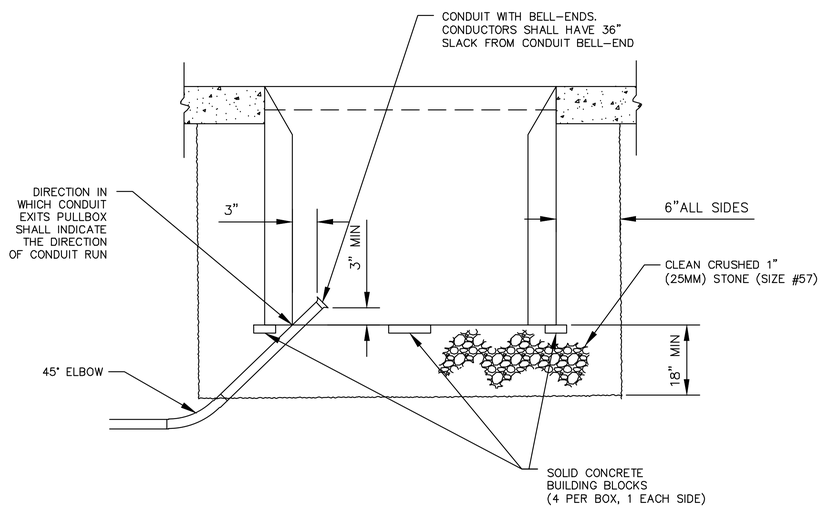
TRENCH DETAIL–SIDEWALK
NTS



LLIGHT POLE AND TREE WELL CONDUIT
NTS



TRENCH DETAIL–STREET
NTS



PULL BOX DETAIL
NTS

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PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES: 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

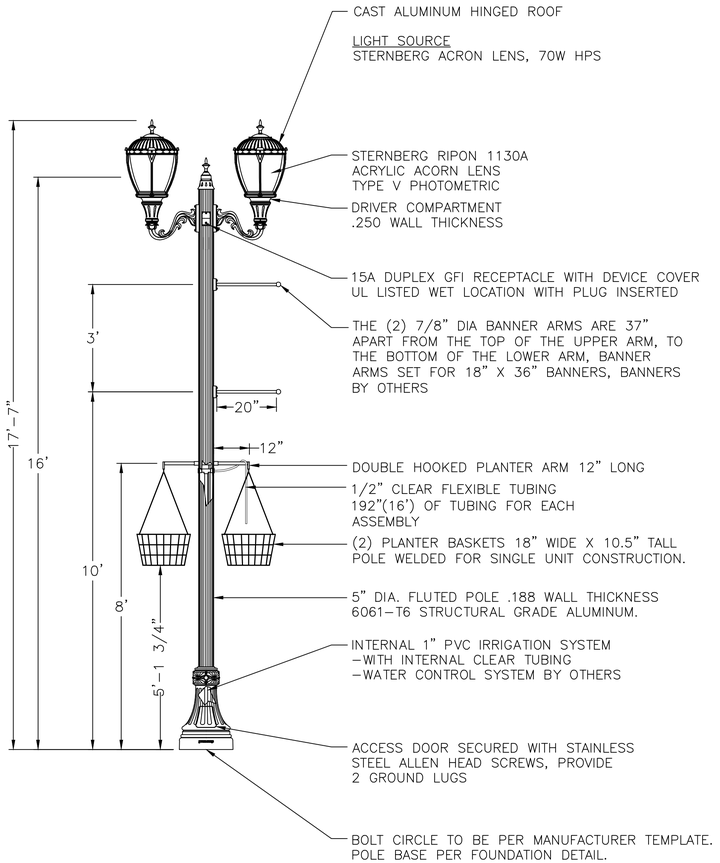
SCALE: NTS	APPROVED BY:	DRAWN BY: KK
DATE: FEB 2011		REVIEWED BY: MB

ELECTRICAL DETAILS 1

CITY OF LAKEPORT — DRAWING NUMBER E-5 of 70 SHTS

BID SET

Xrefs: LDI-BX-TTL BLOCK.dwg; Seal CA Signed.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC DETAIL.dwg Plot Date: Feb 18, 2016 at 12:34

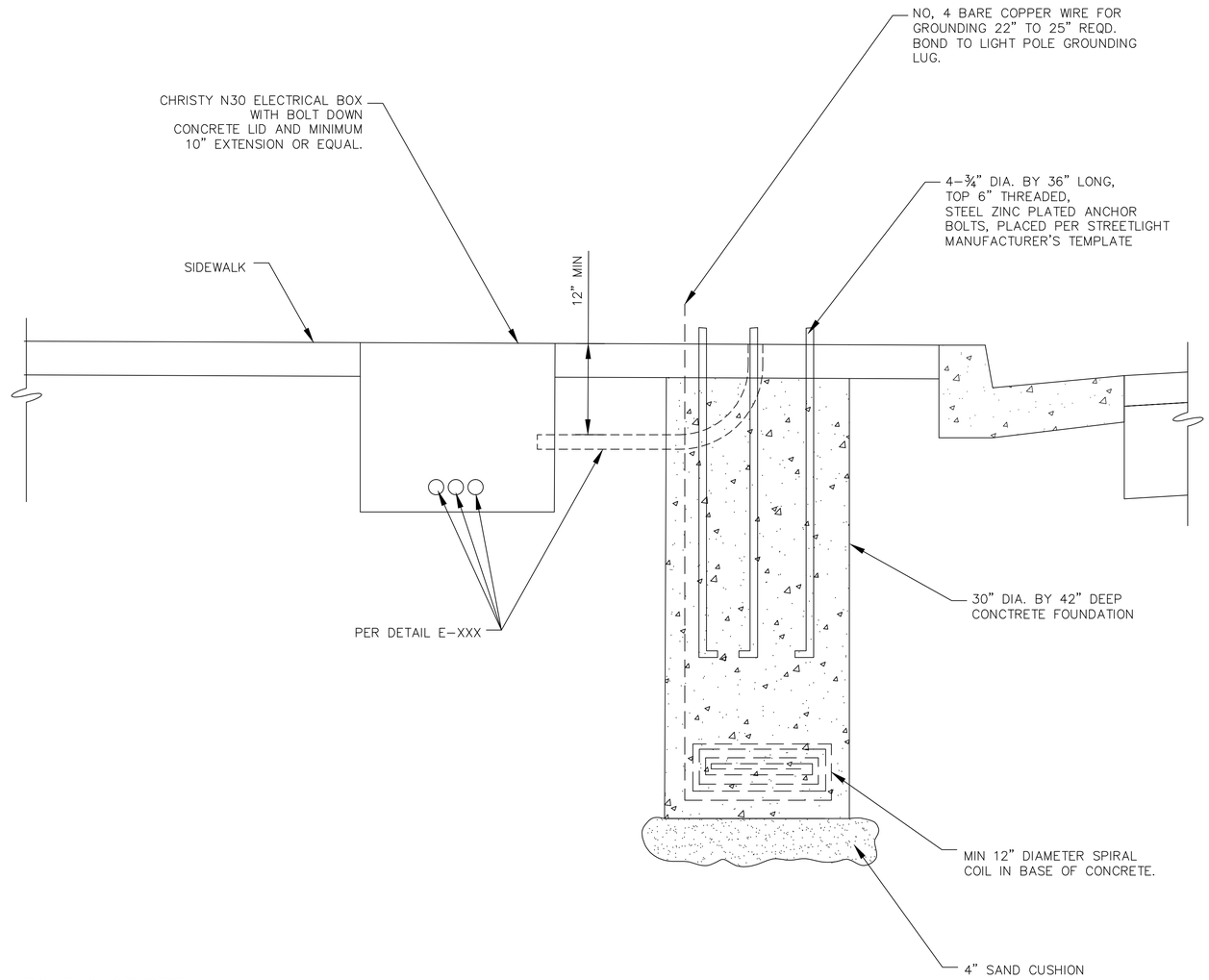


NEW LIGHT POLE DETAIL

NTS

NOTES:

1. LUMINAIRES AND BANNER ARMS SHALL BE AT RIGHT ANGLES TO THE STREET WITH THE BANNER ARMS ON THE STREET SIDE. THE PLANTER ARMS, ALTHOUGH SHOWN IN THE SAME PLANE AS THE LUMINARIES IS TO BE AT RIGHT ANGLES TO THE LUMINAIRES SO THAT THEY ARE PARALLEL TO THE STREET.
2. STREETLIGHTS SHALL BE STERNBERG 2-1130A/55LPM/6214FP5/70HPS-MT/VG, AND AS SHOWN.
3. FOR NEW AND RELOCATED POLES, BASE MUST SIT DIRECTLY ON THE CONCRETE-NO BOLTS ABOVE AND BELOW THE BASE CASTING. MANUFACTURER TO SUPPLY LEVELING WASHERS IF CONCRETE FOUNDATION IS OFF BY A LITTLE BIT.
4. ON RELOCATED POLES REPLACE RECPT COVER W/ COVER UL ISTED WP W/ PLUG INSERTED.



POLE BASE DETAIL

NTS

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PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

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Ukiah, CA 95482
RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: NTS	APPROVED BY:	DRAWN BY: KK
DATE: FEB 2011		REVIEWED BY: MB

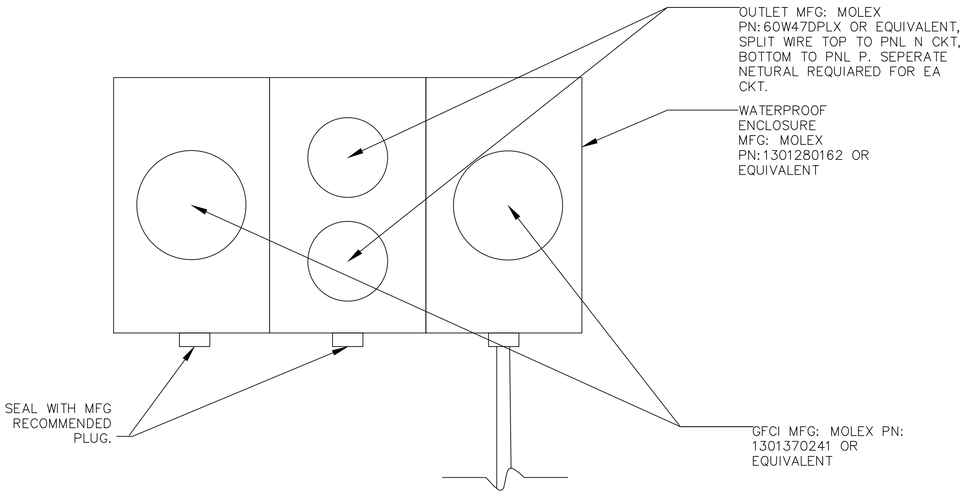
ELECTRICAL DETAILS 2

CITY OF LAKEPORT

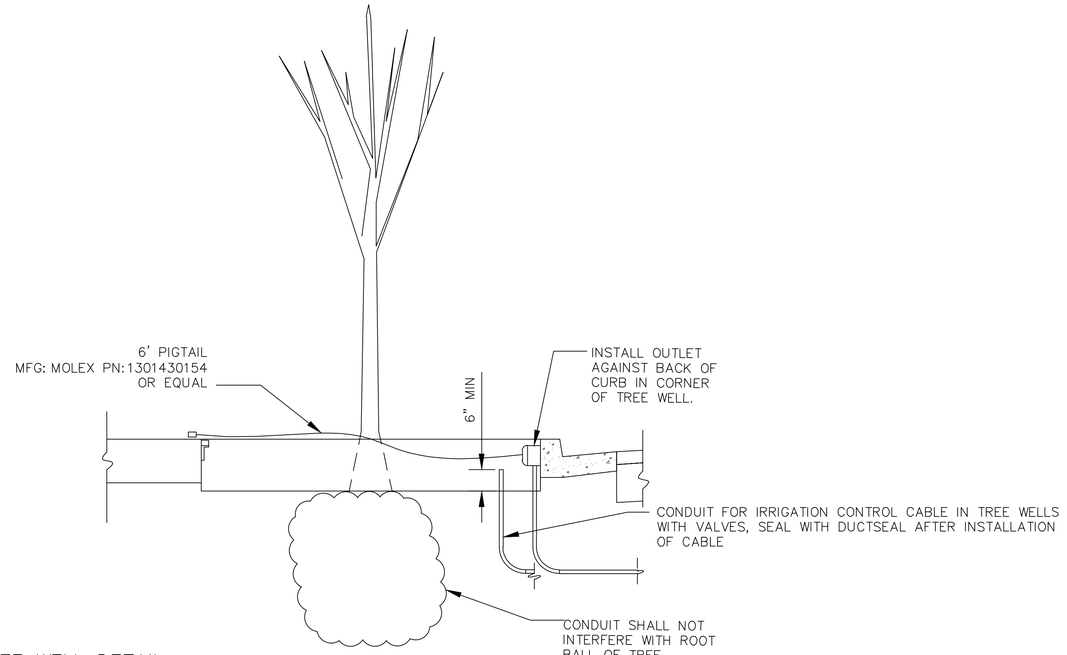
DRAWING NUMBER E-6 of 70 SHTS

BID SET

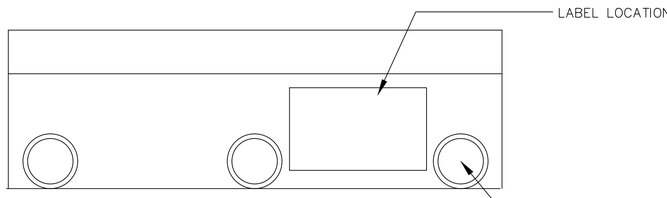
Xrefs: LDI-BX-TTL BLOCK.dwg; Seal CA Signed.dwg
Path: S:\AutoCAD Civil 3D Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC DETAIL.dwg Plot Date: Feb 18, 2016 at 12:34



OUTLET DETAIL: FRONT
NTS



TREE WELL DETAIL
NTS



OUTLET DETAIL: TOP
NTS

TOP OUTLET:
GENERAL USE

BOTTOM OUTLET:
TREE LIGHTING ONLY

LABEL DETAIL
NTS

LABEL NOTES:

1. LABEL SHALL BE ABLE TO SUSTAIN OCCASIONAL DIRECT SPRAY.
2. LABEL SHALL BE WEATHER, HEAT AND UV RESISTANT.
3. LABEL SHALL USE ADHESIVE TO AFFIX, SHALL NOT RIVET OR SCREW TO ENCLOSURE.
4. TEXT SHALL BE $\frac{3}{16}$" MIN.
5. LABEL SHALL BE LOCATED SUCH THAT:
   5.1. IT IS ON THE TOP OF THE ENCLOSURE AND VISIBLE FROM ABOVE THE TREE WELL.
   5.2. LABEL EDGES ARE NOT IMPEDED BY ANY SURFACE FEATURES OF THE ENCLOSURE.
6. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR AFFIXING LABEL.

BID SET

MARS BURNSIDE
ELECTRICAL ENGINEERING
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mars@mbengineering.net
916.838.2501 JOB: 14006

PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

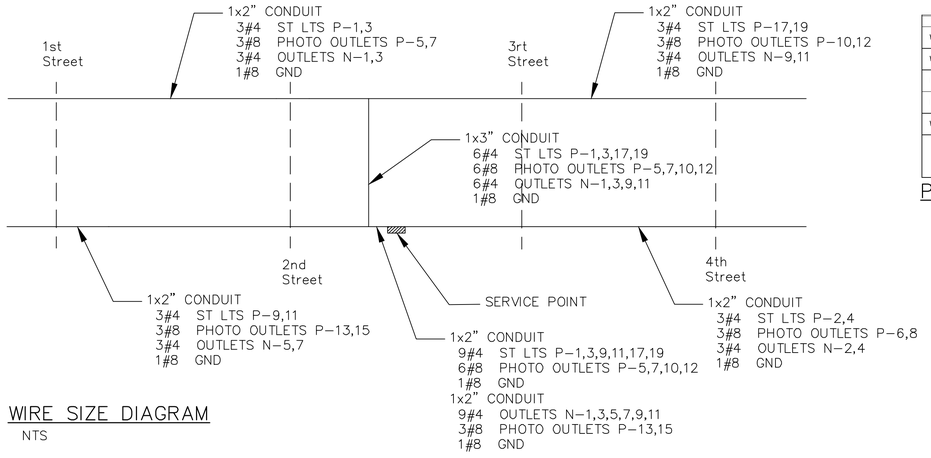
SCALE: NTS	APPROVED BY:	DRAWN BY: KK
DATE: FEB 2011		REVIEWED BY: MB

ELECTRICAL DETAILS 3

CITY OF LAKEPORT

DRAWING NUMBER E-7 of 70 SHTS

Xrefs: LDI-BX-TTL BLOCK.dwg; Seal CA Signed.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-BP-ELEC DETAIL.dwg Plot Date: Feb 18, 2016 at 12:34



WIRE SIZE DIAGRAM

NTS

PANEL P

		TYPE:	BUS: 200	200A M.O	VOLTAGE: 240/120 VOLT 1 PHASE, 3 WIRES				MOUNTING: SURFACE		SHORT CKT RATING 10 kAIC MIN.		
CONNECTION	FEEDER	LOAD SERVED		kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED	FEEDER	CONNECTION
West, 1st to Service	3#4	Street Lights		2.89	30/1	1	A	2	30/1	1.61	Street Lights	3#4	East Service to 4th
				2.89	30/1	3	B	4	30/1	1.61			
West, 1st to Service	3#8	Christmas Lights		0.48	15/1	5	A	6	15/1	0.34	Christmas Lights	3#8	East Service to 4th
				0.48	15/1	7	B	8	15/1	0.34			
East, 1st to Service	3#4	Street Lights		2.89	30/1	9	A	10	15/1	0.31	Christmas Lights	3#8	West, Service to 4th
				2.89	30/1	11	B	12	15/1	0.31			
East, 1st to Service	3#8	Christmas Lights		0.51	15/1	13	A	14	15/1		Spare		
				0.51	15/1	15	B	16	15/1		Spare		
West, Service to 4th	3#4	Street Lights		1.61	30/1	17	A	18	30/1		Spare		
				1.61	30/1	19	B	20	30/1		Spare		
					Current Lights			11.5	KVA x	125% =	14.3	KVA	
					Future Lights			9.8	KVA x	125% =	12.3	KVA	
					Total KVA					=	26.6	KVA	
					Total Current					=	111	AMPS	

PANEL P (PHOTO CONTROLLED) BREAKER SCHEDULE

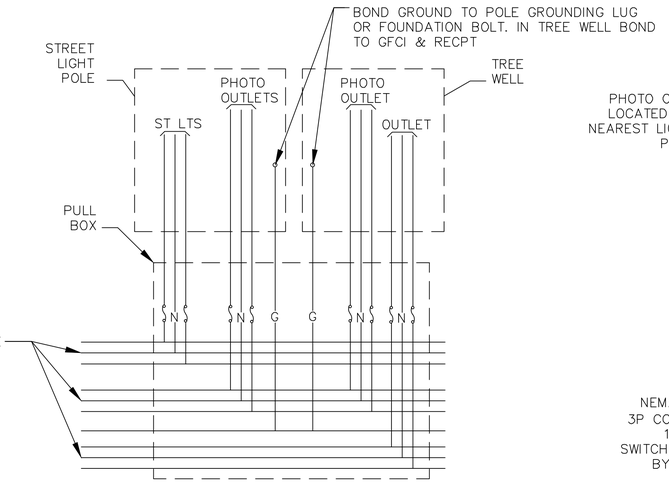
NTS

PANEL N

		TYPE:	BUS: 200	200A MAIN CKT BKR	VOLTAGE: 240/120 VOLT 1 PHASE, 3 WIRES				MOUNTING: SURFACE		SHORT CKT RATING 10 kAIC MIN.		
CONNECTION	FEEDER	LOAD SERVED		kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED	FEEDER	CONNECTION
West, 1st to Service	3#4	Hot Plate Recpts		3.75	50/1	1	A	2	50/1	4.50	Hot Plate Recpts	3#4	East, Service to 4th
				3.75	50/1	3	B	4	50/1	4.50			
East, 1st to Service	3#4	Hot Plate Recpts		3.75	50/1	5	A	6	15/1	0.18	Photo Control	2#14	
				3.75	50/1	7	B	8	50/1		Spare		
West, Service to 4th	3#4	Hot Plate Recpts		3.75	50/1	9	A	10	125/2	26.60	Pannel p		
				3.75	50/1	11	B	12					
						13	A	14					
						15	B	16					
						17	A	18					
Note:				Present Hot Plate Recpts Load*						31.7	KVA x	65% =	20.6 KVA
*Total demand based on .65 for hot plate recpts per CEC Table 220.56				Present Pannel P Load						14.3	KVA x	100% =	14.3 KVA
				Present Total Load									34.9 KVA
				Present Total Current								=	145 AMPS
				Future Total load						31.7	KVA x	65% =	20.6 KVA
				Future Pannel P Load						26.6	KVA x	100% =	26.6 KVA
				Future Total Current								=	197 AMPS

PANEL N (MANUAL CONTROLLED) BREAKER SCHEDULE

NTS

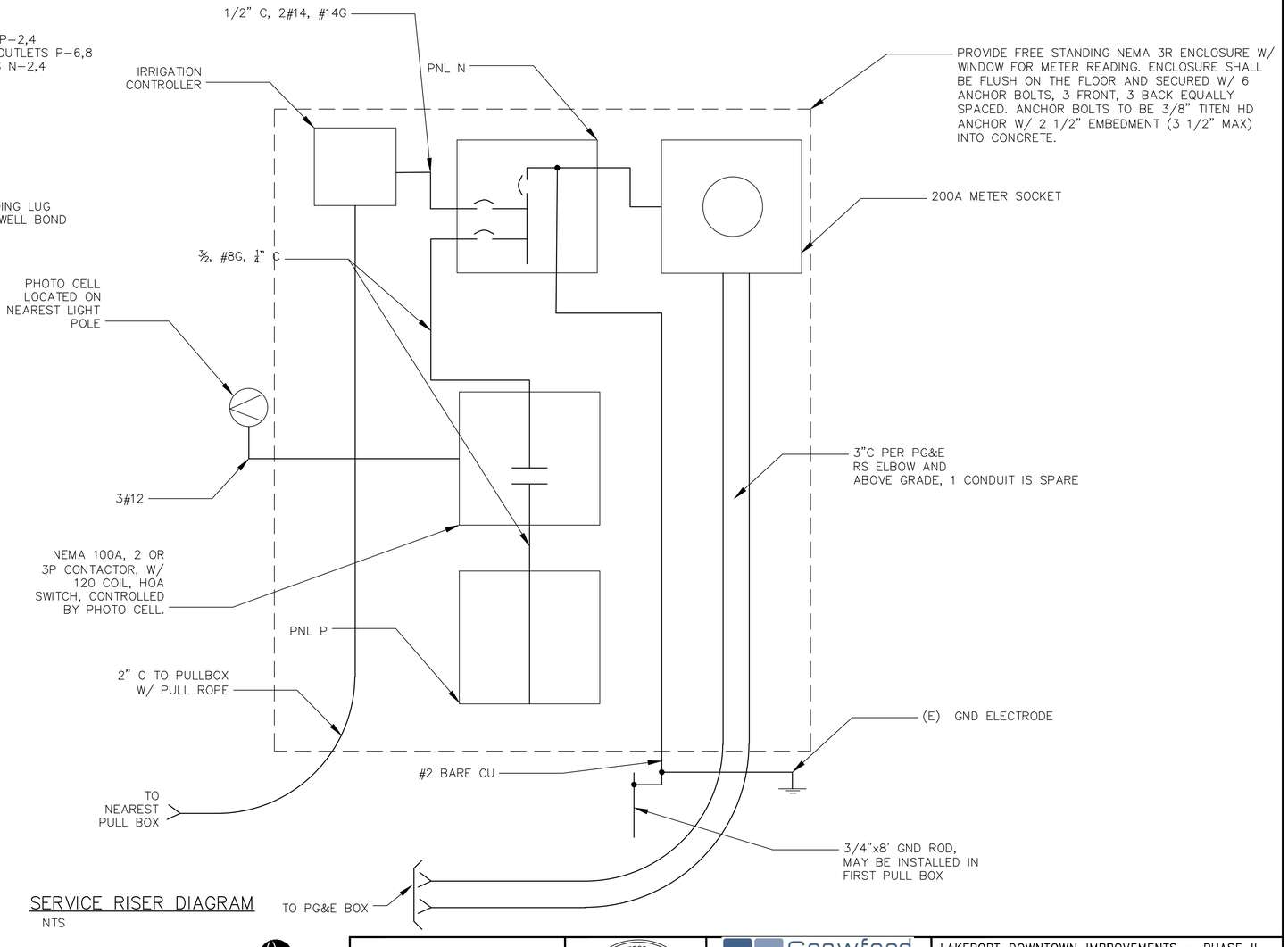


POLE AND TREE WELL WIRING DIAGRAM

NTS

LABEL NOTES:

1. LABEL SHALL BE ABLE TO SUSTAIN OCCASIONAL DIRECT SPRAY.
2. LABEL SHALL BE WEATHER, HEAT AND UV RESISTANT.
3. LABEL SHALL USE ADHESIVE TO AFFIX, SHALL NOT RIVET OR SCREW TO ENCLOSURE.
4. TEXT SHALL BE $\frac{3}{16}$" MIN.
5. LABEL SHALL BE LOCATED SUCH THAT:
   5.1. IT IS ON THE TOP OF THE ENCLOSURE AND VISIBLE FROM ABOVE THE TREE WELL.
   5.2. LABEL EDGES ARE NOT IMPEDED BY ANY SURFACE FEATURES OF THE ENCLOSURE.
6. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR AFFIXING LABEL.



SERVICE RISER DIAGRAM

NTS

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PROJECT ENGINEER: CATHY A. McKEON

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
MARS BURNSIDE
7859
EXPIRES 30SEP16
ELECTRICAL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: NTS	APPROVED BY:	DRAWN BY: KK
DATE: FEB 2011		REVIEWED BY: MB

ELECTRICAL DETAILS 4

CITY OF LAKEPORT

DRAWING NUMBER E-8 of 70 SHTS

BID SET

Xrefs: LDI-BX-TTL BLOCK.dwg; Seal CA Signed.dwg
Path: S:\AutoCAD Civil 3D Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Burnside\LDI-RP-ELEC DETAIL.dwg Plot Date: Feb 18, 2016 at 12:34

SITE FURNITURE AND PLANTING LEGEND

- TREE , 36-INCH BOX, AND TREE GRATE — 1/L-5
- HANGING BASKETS, 2 AT EACH STREET LIGHT, SEE PLANTING NOTES
- ROOT BARRIER — 1/L-5
- BENCH (NOT IN CONTRACT)
- BICYCLE BOLLARD (NOT IN CONTRACT)
- NEWS RACK (NOT IN CONTRACT), SEE SITE FURNITURE NOTE 3
- TRASH RECEPTACLE (NOT IN CONTRACT)
- CENTER LINE
- EQ EQUAL

SITE FURNITURE NOTES

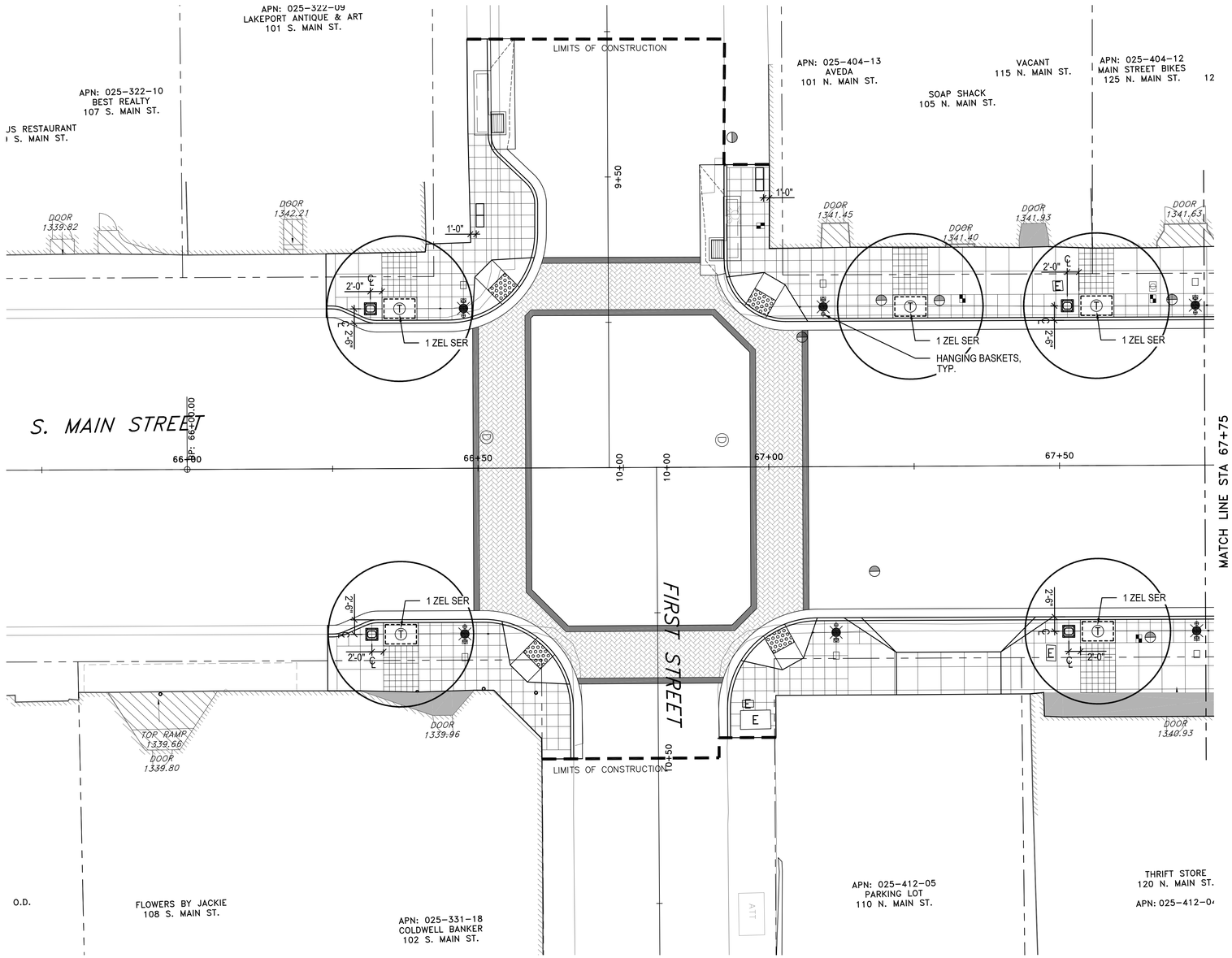
1. ALL SITE FURNITURE IS NOT IN CONTRACT.
2. REFER TO SPECIFICATIONS FOR SITE FURNITURE.
3. NEWS RACK LOCATION: THE DISTANCE FROM EDGE OF PAVEMENT/FACE OF BUILDING TO BACK OF NEWS RACK SHALL BE AS INDICATED ON PLANS. SEE ADJACENT PAVEMENT JOINTS FOR LATERAL LOCATION.

PLANTING NOTES

1. SPECIFICATIONS: SEE PLANTING SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. TOPSOIL AND AMENDMENT: ALL PLANTING AREAS SHALL RECEIVE TOPSOIL AMENDED PER SPECIFICATIONS.
3. TREES: ALL TREES SHALL HAVE STRAIGHT TRUNKS OF UNIFORM TAPER, LARGER AT THE BOTTOM. TRUNKS SHALL BE FREE OF DAMAGED BARK, WITH ALL MINOR ABRASIONS AND CUTS SHOWING HEALING TISSUE. SUCKER BASAL GROWTH AND SUCKER LATERAL GROWTH SHALL BE REMOVED AND TREATED TO ELIMINATE RESPROUTING. NORMAL LOWER SIDE BRANCHING SHALL REMAIN. TREES UNABLE TO SUPPORT THEMSELVES WITHOUT STAKING SHALL BE REJECTED.
4. PROTECTION OF PLANTS: CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL IN A HEALTHY GROWING CONDITION PRIOR TO AND DURING PLANTING OPERATIONS.
5. HANGING BASKETS: PROVIDE PLANTER POT SOIL MIX PER SPECS IN ALL HANGING BASKETS. HOLD FINISH GRADE 3-INCHES BELOW RIM OF BASKET. PROVIDE TWO GERANIUM PLANTS AND ONE IVY PLANT IN EACH BASKET.

PLANT SCHEDULE

QUANTITY	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	ON-CENTER SPACING	WATER USE
TREES						
37	ZEL SER	ZELKOVA SERRATA 'VILLAGE GREEN'	ZELKOVA	36" BOX	PER PLAN	MEDIUM
ANNUALS						
60	HED HEL	HEDERA HELIX 'NEEDLEPOINT'	ENGLISH IVY	6" POT	N/A	MEDIUM
120	PEL HOR	PELARGONIUM X HORTORUM 'ALLURE LIGHT PINK'	GERANIUM	6" POT	N/A	LOW



BID SET

LICENSED LANDSCAPE ARCHITECT
WILLIAM S. HARRIS 2428
08-31-16
Renewal Date
STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
Landscape Architecture
Urban Design
755 Folger Avenue
Berkeley, CA 94710
t: 510.647.3792
www.hd-la.com

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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
S. MAIN STREET — LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	DRAWN BY: LY
DATE:	FEB. 2016		REVIEWED BY: BH

PLANTING & SITE FURNITURE PLAN
STA: 64+75 TO STA: 67+75

LAKEPORT REDEVELOPMENT AGENCY — DRAWING NUMBER L-1 of 70 SHTS

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; LDI-Plant schedule.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\LDI_LP-LAYOUT.DWG Plot Date: Feb 11, 2016 at 12:18

NORTH LAKE COMPUTERS
127 N. MAIN ST.

APN: 025-404-11
JACK'S GASLIGHT RESTAURANT
135 N. MAIN ST.

CHEESES MAIN STREET PIZZA
145 N. MAIN ST.

DOOR UPPER FLOOR
149 N. MAIN ST.

APN: 025-404-10
PIECES BOUTIQUE
155 N. MAIN ST.

DON ANGEL CELLARS
165 N. MAIN ST.

APN: 025-404-15
OLD WORLD TAVERN
175 N. MAIN ST.

DOOR
175? N.
MAIN ST.

APN: 025-404-14
CHOPSTICKS
185 N. MAIN ST.

APN: 025-404-05
TRADITIONS
199 N. MAIN ST.

HANDRAIL, 36-LF (1 / L-6)

HANDRAIL, 24-LF (1 / L-6)

DOOR 1341.60
DOOR 1341.98
DOOR 1341.94
DOOR 1341.71
DOOR 1341.76
DOOR 1341.05
DOOR 1341.28
DOOR 1340.89
DOOR 1339.93

LIMITS OF CONSTRUCTION

1 ZEL SER

(SEE SHEET CL-1)
MATCH LINE STA 67+75

68+00 | 68+50 | 69+00 | 69+50 | 70+00 | 70+50

N. MAIN STREET

STA: 68+49.46

STA: 68+81.46

SECOND STREET

MATCH LINE STA 70+75
(SEE SHEET CL-3)

HANGING BASKETS, TYP.

DOOR 1340.20
DOOR 1339.58
DOOR 1339.62
DOOR 1339.60
DOOR 1339.70
DOOR 1339.48
DOOR 1338.56
DOOR 1338.41

TOP RAMP
1341.22

HANDRAIL, 51-LF (1 / L-6)

APN: 025-411-05
CLEARLAKE CLUB
210 N. MAIN ST.

APN: 025-411-06
SENIOR LAW PROJECT, INC.
CARPENTER & CARPENTER
CERTIFIED PUBLIC ACCOUNTANTS
200 N. MAIN ST.

ORE
I ST.
2-04

AUDIO LX
140B N. MAIN ST.

APN: 025-412-03
BICOASTAL MEDIA, LLC
140 N. MAIN ST.

VACANT
140A N. MAIN ST.

LOGANS BAR
150 N. MAIN ST.

APN: 025-412-02

PYORRE INSURANCE AGENT
160 N. MAIN ST.

VACANT
170 N. MAIN ST.

APN: 025-412-01

VACANT
180 N. MAIN ST.

OUR HAPPY TRAILS
190 N. MAIN ST.

LAKEPORT HAIR DESIGNS
198 N. MAIN ST.

LIMITS OF CONSTRUCTION

BID SET

0 10 20
SCALE: HORZ. 1"=10'

LICENSED LANDSCAPE ARCHITECT
WILLIAM S. HARRIS 3428
08-31-16
Renewal Date
STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
Landscape Architecture
Urban Design
755 Folger Avenue
Berkeley, CA 94710
t: 510.647.3792
www.hd-la.com

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' | APPROVED BY: | DRAWN BY: LY
DATE: FEB. 2016 | REVIEWED BY: BH

PLANTING & SITE FURNITURE PLAN
STA: 67+75 TO STA: 70+75

LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER L-2 of 70 SHTS

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; LDI-Plant schedule.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\LDI_LP-LAYOUT.DWG Plot Date: Feb 11, 2016 at 12:20

MUSEUM PARK
APN: 025-402-01
255 N. MAIN ST.

APN: 025-376-13
GAME SHOP
301 N. MAIN ST.
WATERSHED BOOKS
305 N. MAIN ST.
LAKEWORKS
307 N. MAIN

LIMITS OF CONSTRUCTION

HANGING BASKETS, TYP.

1 ZEL SER

DOOR 1337.16
DOOR 1337.35
DOOR 1337.31

N. MAIN STREET

(SEE SHEET CL-2)
MATCH LINE STA 70+75

71+00 | 71+50 | 72+00 | 72+50 | 10+00 | 73+00 | 73+50

STA: 71+25.31
STA: 71+35.31
STA: 71+45.31

THIRD STREET

MATCH LINE STA 73+50
(SEE SHEET CL-4)

DOOR 1337.98
DOOR 1337.98
STEP DOOR 1338.02
STEP DOOR 1338.02
STEP DOOR 1338.02
STEP DOOR 1338.03
STEP DOOR 1338.01
DOOR 1336.75
DOOR 1336.43

MORGAN'S BARBER SHOP
260 N. MAIN ST.

SUTTON ASSOCIATES
WEALTH MANAGEMENT
290 N. MAIN ST.

APN: 025-411-13
LAKEPORT JEWELERS
270 N. MAIN ST.

APN: 025-411-15
LAKE CO. SPECIAL DIST.
230A N. MAIN ST.

APN: 025-411-14
LIV FASHION BOUTIQUE
240 N. MAIN ST.

LAKE CO. LIMOUSINE
270? N. MAIN ST.

APN: 025-383-19
VACANT
302 N. MAIN ST.

OVERHEAD DOOR
304 & 306
N. MAIN ST.

APN: 025-
FLT
310 N. MA

LIMITS OF CONSTRUCTION

SCALE: HORZ. 1"=10'

LICENSED LANDSCAPE ARCHITECT
WILLIAM S. HARRIS 3428
Signature
08-31-16
Renewal Date
STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET — LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	
DATE:	FEB. 2016	DRAWN BY:	LY
		REVIEWED BY:	BH

PLANTING & SITE FURNITURE PLAN
STA: 70+75 TO STA: 73+50

LAKEPORT REDEVELOPMENT AGENCY — DRAWING NUMBER L-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; LDI-Plant schedule.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\LDI_LP-LAYOUT.DWG Plot Date: Feb 11, 2016 at 12:21

'ORKS
MAIN ST.

MAIN ST. GALLERY/
LAKE CO. ART COUNCIL
325 N. MAIN ST.

APN: 025-376-08
CURRY'S FURNITURE
335 N. MAIN ST.

APN: 025-376-08
TAILORED LIVING
CHOICES
341 N. MAIN ST.

APN: 025-376-02

LIVING MADE EASY
357 N. MAIN ST.

ANGELINA'S BAKERY
365 N. MAIN ST.

HARTLEY LODGE

APN: 025-376-11
PEOPLE SERVICES
THRIFT STORE
395 N. MAIN ST.

APN: 025-374-11
PEGGY C. CAMBELL,
CPA 401 N. MAIN ST.

LAW OFFICES
DEBRA S. BLUM
405 N. MAIN ST.

APN: 025-374-08
GOSSITT ALARM
409 N. MAIN ST.

APN: 025-374-07
DAY MAKERS
415 N. MAIN ST.

DOOR 1337.08
DOOR 1336.45
DOOR 1336.00
DOOR 1336.18
DOOR 1335.89
DOOR 1336.05
DOOR 1335.95
DOOR 1335.85
DOOR 1335.78
DOOR 1336.34
DOOR 1335.21
DOOR 1334.92

LIMITS OF CONSTRUCTION

1 ZEL SER
HANGING BASKETS, TYP.

(SEE SHEET CL-3)
MATCH LINE STA 70+75

N. MAIN STREET

73+50 74+00 74+50 75+00 75+50 76+00

STA: 73+92.35
STA: 74+22.35

9+50
10+00
10+50

FOURTH STREET

E

LIMITS OF CONSTRUCTION

DOOR 1336.43
DOUBLE DOOR (SLIDER) 1336.19
DOOR 1335.95
DOOR 1335.94
DOOR 1335.78
DOOR 1335.78
DOOR 1335.67

LIMITS OF CONSTRUCTION

025-383-20
FLT
N. MAIN ST.

APN: 025-383-08
CAMPOS CASUAL
340 N. MAIN ST.

WORLD OF GIFTS
350 N. MAIN ST.

MAGOON'S JEWELRY
& ART GALLERY
360 N. MAIN ST.

APN: 025-383-07

MEL'S BAIL BOND
370 N. MAIN ST.

MULTIPLE OFFICES
380 N. MAIN ST.

APN: 025-383-01
ANTON & GREEN BLDG.

LAW OFFICES
SUSAN DEBRA FEENEY
390 N. MAIN ST.

APN: 025-382-26
PARKING LOT
420 N. MAIN ST.

SCALE: HORZ. 1"=10'

LICENSED LANDSCAPE ARCHITECT
WILLIAM S. HARRIS 3428
08-31-16
Renewal Date
STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	DRAWN BY: LY
DATE:	FEB. 2016		REVIEWED BY: BH

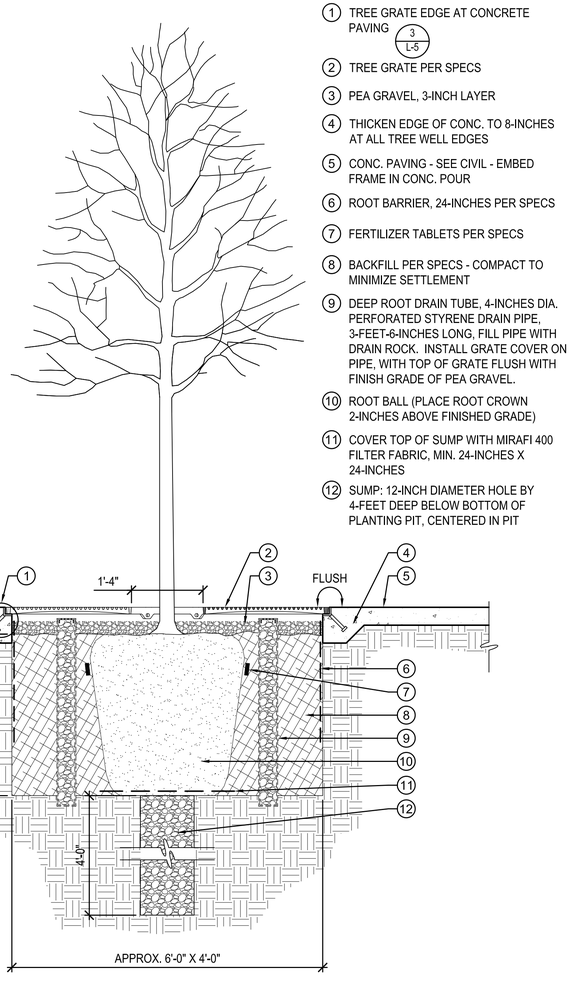
PLANTING & SITE FURNITURE PLAN
STA: 73+50 TO STA: 76+00

LAKEPORT REDEVELOPMENT AGENCY

DRAWING NUMBER
L-4 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; LDI-Plant schedule.dwg; LDI_CX-BASE_NoBulbouts.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\LDI_LP-LAYOUT.DWG Plot Date: Feb 11, 2016 at 12:21

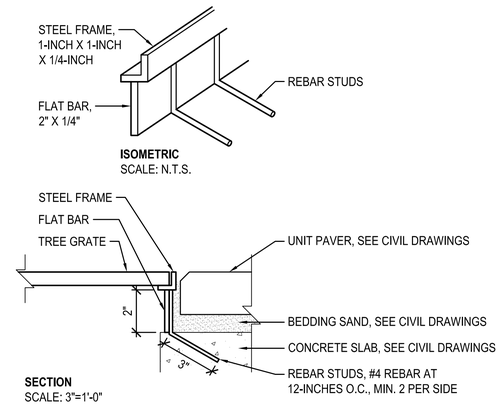


SECTION

1 TREE PLANTING AND TREE GRATE

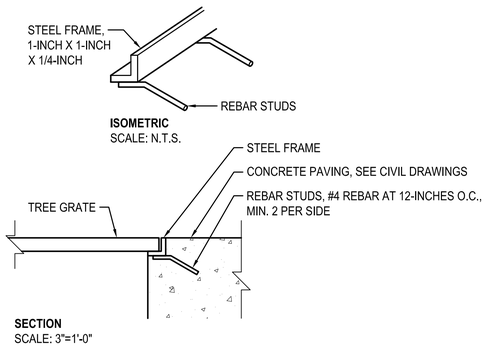
SCALE: N.T.S.

1. TREE GRATE EDGE AT CONCRETE PAVING (3 / L-5)
2. TREE GRATE PER SPECS
3. PEA GRAVEL, 3-INCH LAYER
4. THICKEN EDGE OF CONC. TO 8-INCHES AT ALL TREE WELL EDGES
5. CONC. PAVING - SEE CIVIL - EMBED FRAME IN CONC. POUR
6. ROOT BARRIER, 24-INCHES PER SPECS
7. FERTILIZER TABLETS PER SPECS
8. BACKFILL PER SPECS - COMPACT TO MINIMIZE SETTLEMENT
9. DEEP ROOT DRAIN TUBE, 4-INCHES DIA. PERFORATED STYRENE DRAIN PIPE, 3-FEET-6-INCHES LONG, FILL PIPE WITH DRAIN ROCK. INSTALL GRATE COVER ON PIPE, WITH TOP OF GRATE FLUSH WITH FINISH GRADE OF PEA GRAVEL.
10. ROOT BALL (PLACE ROOT CROWN 2-INCHES ABOVE FINISHED GRADE)
11. COVER TOP OF SUMP WITH MIRAFI 400 FILTER FABRIC, MIN. 24-INCHES X 24-INCHES
12. SUMP: 12-INCH DIAMETER HOLE BY 4-FEET DEEP BELOW BOTTOM OF PLANTING PIT, CENTERED IN PIT



2 PAVER EDGE AT TREE GRATE

SCALE: 3"=1'-0"



3 TREE GRATE EDGE AT CONCRETE PAVING

SCALE: 3"=1'-0"

LICENSED LANDSCAPE ARCHITECT · WILLIAM S. HARRIS · 3426 · STATE OF CALIFORNIA · Signature · 08-31-16 · Renewal Date · Date

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	VARIES	APPROVED BY:	
DRAWN BY:	LY		
DATE:	FEB. 2016	REVIEWED BY:	BH

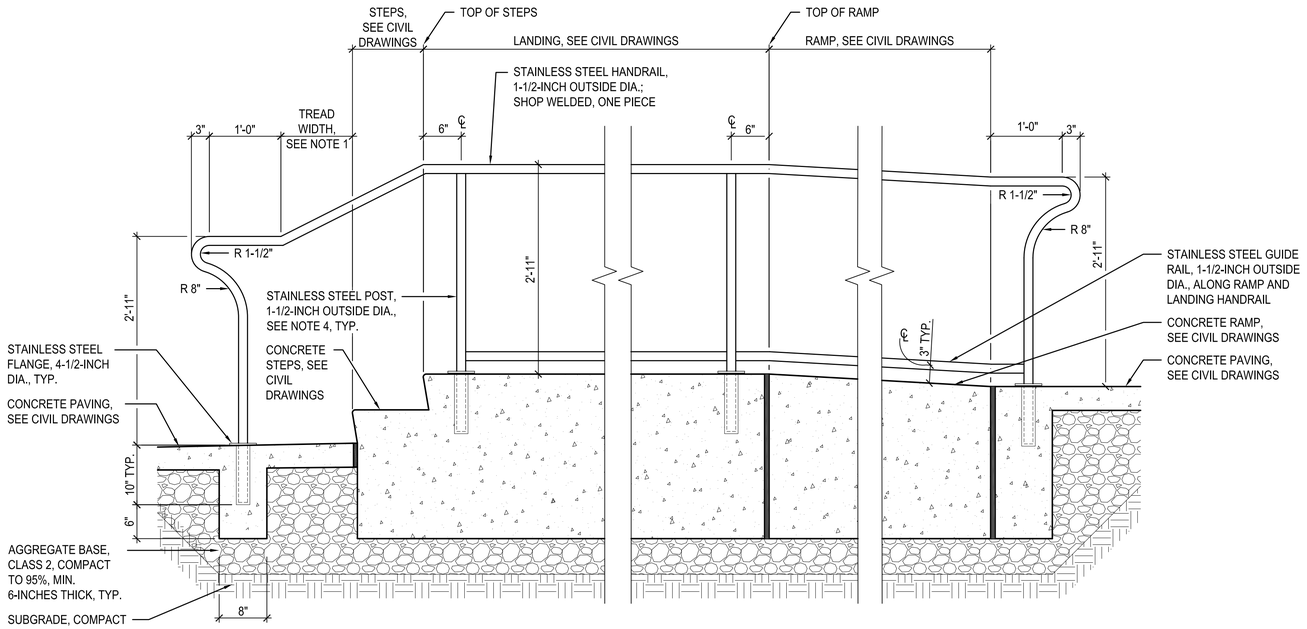
LANDSCAPE CONSTRUCTION DETAILS

LAKEPORT REDEVELOPMENT AGENCY

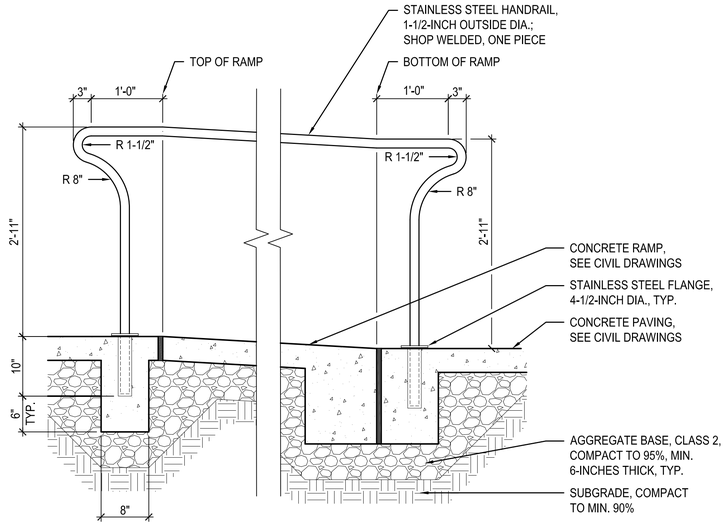
DRAWING NUMBER L-5 of 70 SHTS

BID SET

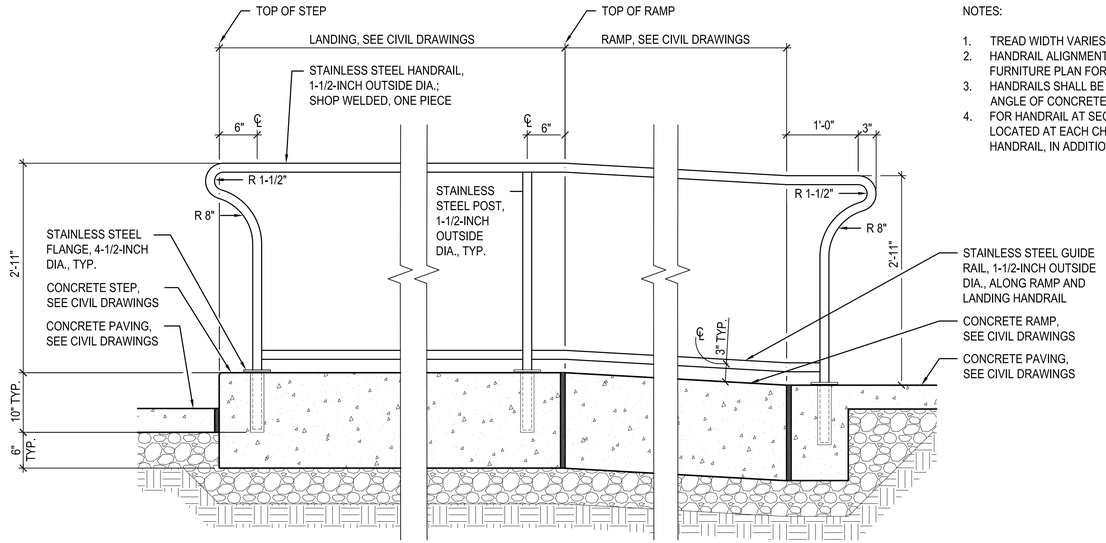
Xrefs: LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; tree_planting.dwg; LP-Tree grate edge at concrete paving.dwg; LP-Paver edge at tree grate.dwg; LP-handrail.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\LDI-L-5-Landscape construction details.dwg Plot Date: Feb 10, 2016 at 16:22



SECTION: HANDRAIL AT SECOND STREET



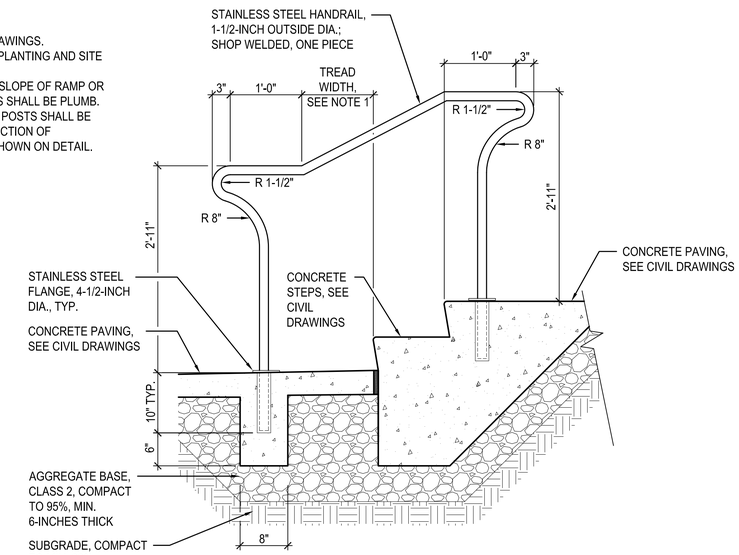
SECTION: TYPICAL HANDRAIL AGAINST BUILDING AT RAMP



SECTION: TYPICAL HANDRAIL FOR RAISED WALKS ALONG MAIN STREET BETWEEN STA: 67+75 AND 69+25

NOTES:

1. TREAD WIDTH VARIES. SEE CIVIL DRAWINGS.
2. HANDRAIL ALIGNMENT VARIES. SEE PLANTING AND SITE FURNITURE PLAN FOR ALIGNMENT.
3. HANDRAILS SHALL BE PARALLEL TO SLOPE OF RAMP OR ANGLE OF CONCRETE STEPS. POSTS SHALL BE PLUMB.
4. FOR HANDRAIL AT SECOND STREET, POSTS SHALL BE LOCATED AT EACH CHANGE OF DIRECTION OF HANDRAIL, IN ADDITION TO POSTS SHOWN ON DETAIL.



SECTION: HANDRAIL AGAINST BUILDING AT STEPS AT SECOND STREET

1 HANDRAIL

SCALE: 1"=1'-0"

LICENSED LANDSCAPE ARCHITECT · WILLIAM S. HARRIS 3428 · Signature · 08-31-16 Renewal Date · STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON	
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET — LAKEPORT, CA.

SCALE: VARIES	APPROVED BY:	DRAWN BY:	LY
DATE: FEB. 2016		REVIEWED BY:	BH

LANDSCAPE CONSTRUCTION DETAILS

LAKEPORT REDEVELOPMENT AGENCY — DRAWING NUMBER L-6 of 70 SHTS

BID SET

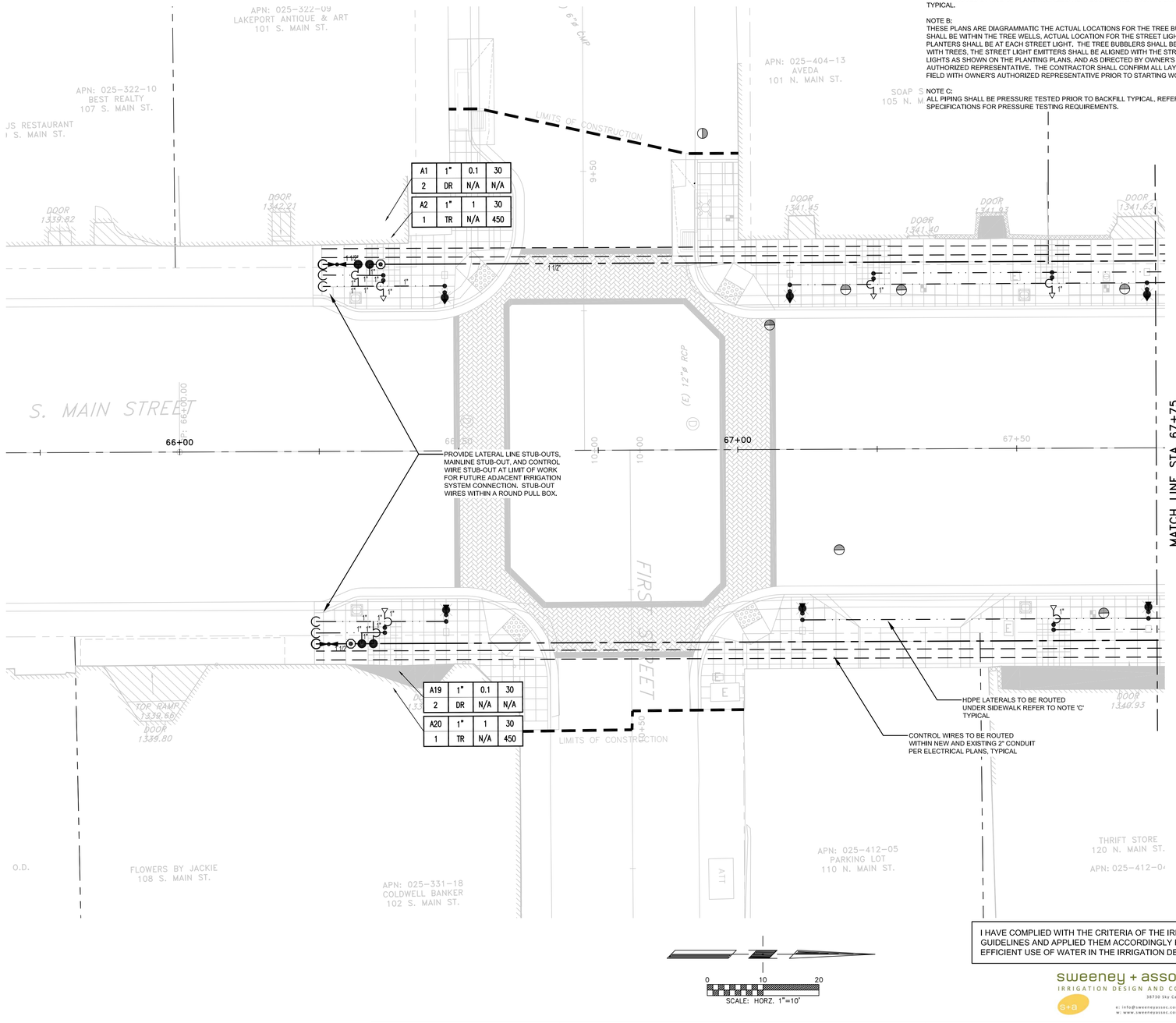
Xrefs: LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; tree_planting.dwg; LP-Tree grate edge at concrete paving.dwg; LP-Paver edge at tree grate.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\LDI-L-5-Landscape construction details.dwg Plot Date: Feb 10, 2016 at 16:56

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; L-IXRF.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\CAD Irrigation-From Sweeney-Bid Set Revised-20160210\LDI_LI-LAYOUT.dwg Plot Date: Feb 11, 2016 at 16:10

NOTE A:
THESE PLANS ARE DIAGRAMMATIC, THE ACTUAL LOCATION OF MAINLINE, LATERAL LINES, AND RELATED IRRIGATION EQUIPMENT SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, TYPICAL.

NOTE B:
THESE PLANS ARE DIAGRAMMATIC THE ACTUAL LOCATIONS FOR THE TREE BUBBLERS SHALL BE WITHIN THE TREE WELLS, ACTUAL LOCATION FOR THE STREET LIGHT PLANTERS SHALL BE AT EACH STREET LIGHT. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES. THE STREET LIGHT EMITTERS SHALL BE ALIGNED WITH THE STREET LIGHTS AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO BACKFILL TYPICAL, REFER TO SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS.



BID SET

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-0850
w: www.sweeneyassoc.com f: (951) 461-0850

LICENSED LANDSCAPE ARCHITECT
WILLIAM S. HARRIS #3258
Signature
08-31-16
Renewal Date
Date
STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
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Urban Design
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t: 510.647.3792
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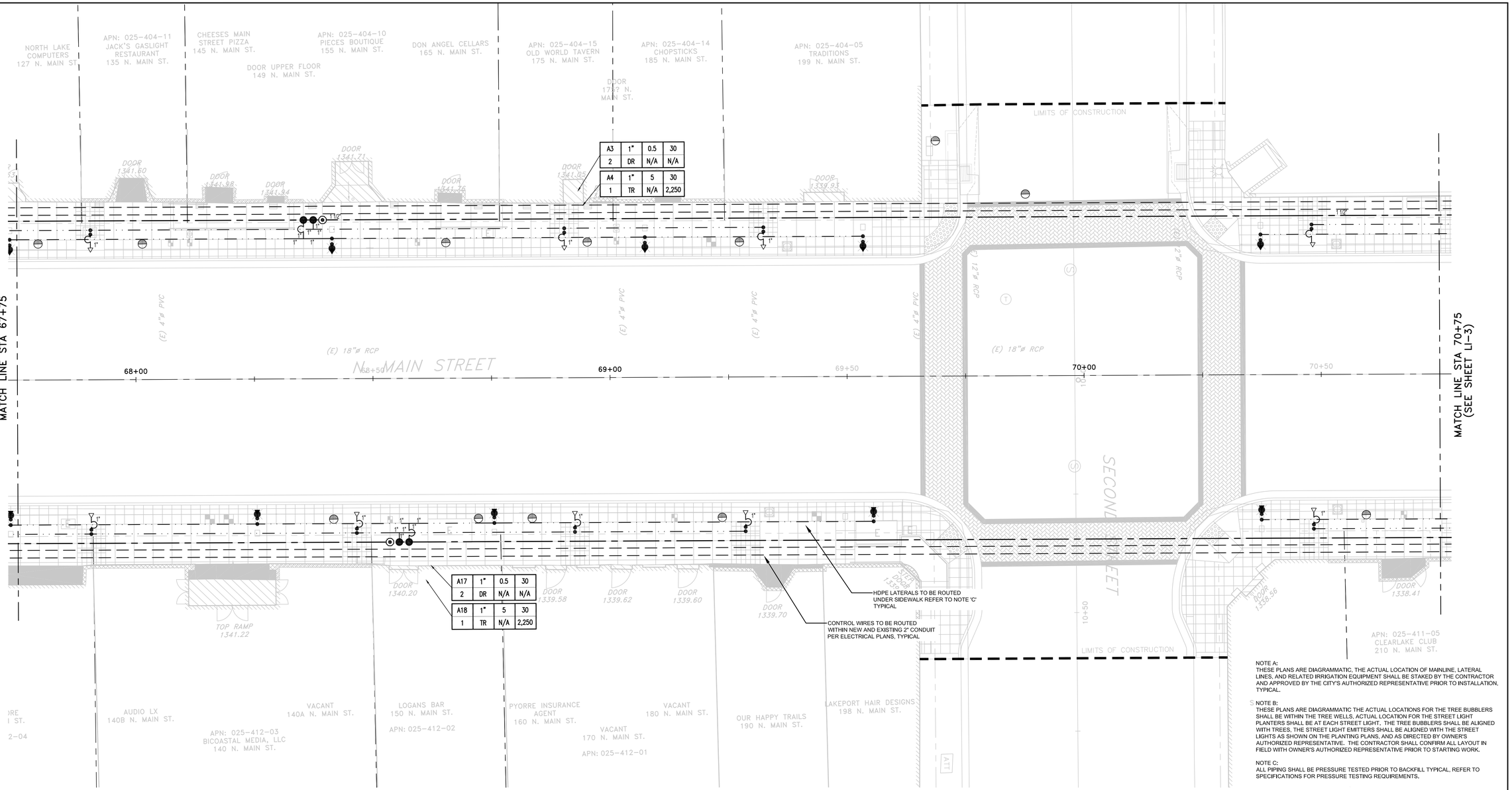
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
S. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	
DATE:	FEB. 2016	DRAWN BY:	CB
		REVIEWED BY:	DZ

IRRIGATION PLAN
STA: 64+75 TO STA: 67+75

LAKEPORT REDEVELOPMENT AGENCY
DRAWING NUMBER LI-1 of 70 SHTS



NOTE A:
THESE PLANS ARE DIAGRAMMATIC, THE ACTUAL LOCATION OF MAINLINE, LATERAL LINES, AND RELATED IRRIGATION EQUIPMENT SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, TYPICAL.

NOTE B:
THESE PLANS ARE DIAGRAMMATIC THE ACTUAL LOCATIONS FOR THE TREE BUBBLERS SHALL BE WITHIN THE TREE WELLS, ACTUAL LOCATION FOR THE STREET LIGHT PLANTERS SHALL BE AT EACH STREET LIGHT. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES, THE STREET LIGHT EMITTERS SHALL BE ALIGNED WITH THE STREET LIGHTS AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO BACKFILL TYPICAL. REFER TO SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS.

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

0 10 20
SCALE: HORZ. 1"=10'

LICENSED LANDSCAPE ARCHITECT — WILLIAM S. HARRIS 3428 — 08-31-16 — STATE OF CALIFORNIA

PROJECT ENGINEER:	CATHY A. McKEON
LICENSE: NO. 51026	EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

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CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

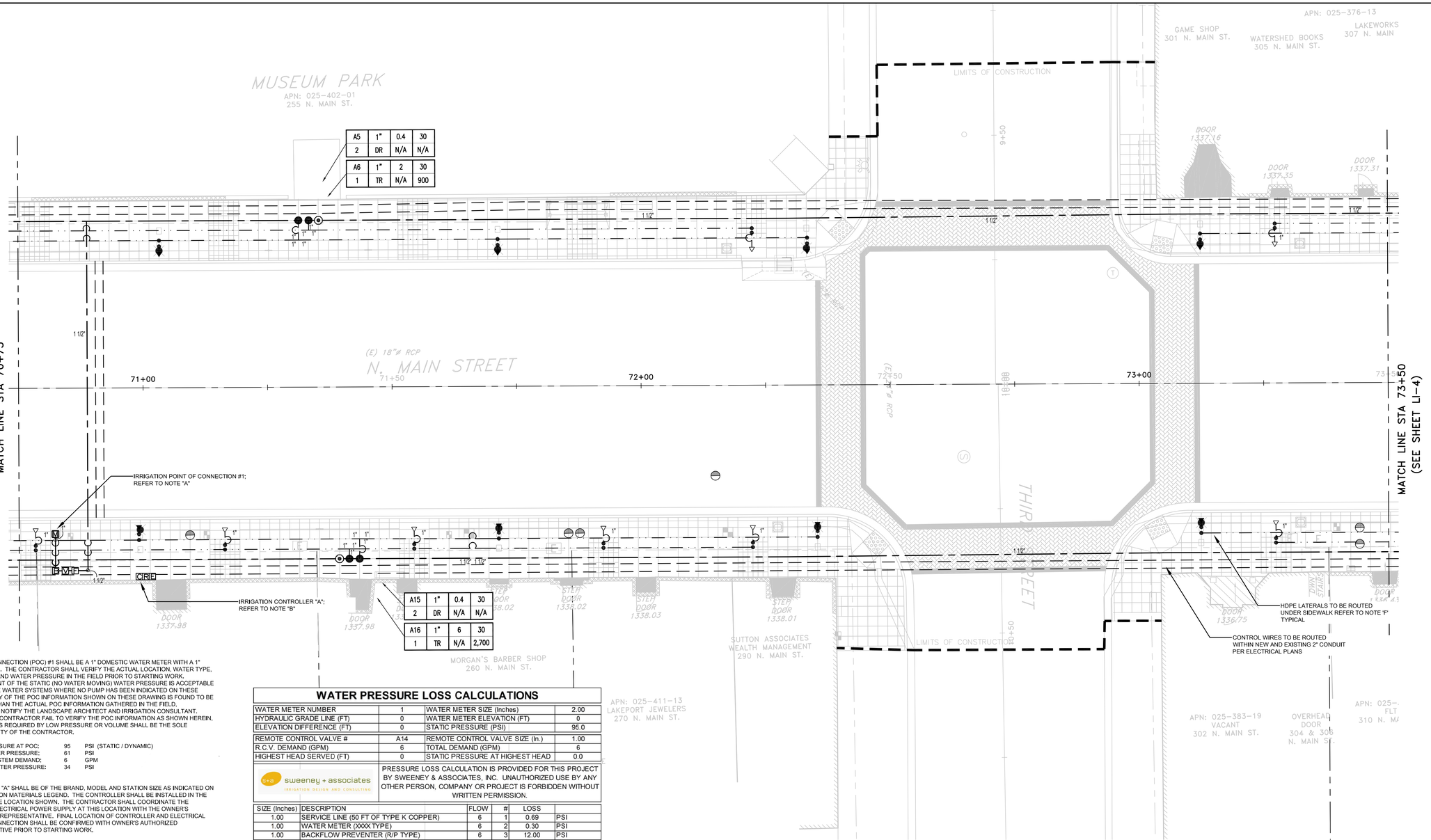
SCALE:	1"=10'	APPROVED BY:	DRAWN BY: CB
DATE:	FEB. 2016		REVIEWED BY: DZ

IRRIGATION PLAN
STA: 67+75 TO STA: 70+75

LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER LI-2 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; L-IXRF.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\CAD Irrigation-From Sweeney-Bid Set Revised-20160210\LDI_LI-LAYOUT.dwg Plot Date: Feb 11, 2016 at 16:11



A5	1"	0.4	30
2	DR	N/A	N/A
A6	1"	2	30
1	TR	N/A	900
A15	1"	0.4	30
2	DR	N/A	N/A
A16	1"	6	30
1	TR	N/A	2,700

NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A 1" DOMESTIC WATER METER WITH A 1" SERVICE LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT, SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE AT POC:	95	PSI (STATIC / DYNAMIC)
DESIGN WATER PRESSURE:	61	PSI
MAXIMUM SYSTEM DEMAND:	6	GPM
RESIDUAL WATER PRESSURE:	34	PSI

NOTE B:
CONTROLLER "A" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, THE ACTUAL LOCATION OF MAINLINE, LATERAL LINES, AND RELATED IRRIGATION EQUIPMENT SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, TYPICAL.

NOTE D:
THESE PLANS ARE DIAGRAMMATIC THE ACTUAL LOCATIONS FOR THE TREE BUBBLERS SHALL BE WITHIN THE TREE WELLS, ACTUAL LOCATION FOR THE STREET LIGHT PLANTERS SHALL BE AT EACH STREET LIGHT. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES, THE STREET LIGHT EMITTERS SHALL BE ALIGNED WITH THE STREET LIGHTS AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO BACKFILL TYPICAL, REFER TO SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS.

WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	1	WATER METER SIZE (Inches)	2.00
HYDRAULIC GRADE LINE (FT)	0	WATER METER ELEVATION (FT)	0
ELEVATION DIFFERENCE (FT)	0	STATIC PRESSURE (PSI)	95.0
REMOTE CONTROL VALVE #	A14	REMOTE CONTROL VALVE SIZE (In.)	1.00
R.C.V. DEMAND (GPM)	6	TOTAL DEMAND (GPM)	6
HIGHEST HEAD SERVED (FT)	0	STATIC PRESSURE AT HIGHEST HEAD	0.0

s+a sweeney + associates IRRIGATION DESIGN AND CONSULTING

PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
1.00	SERVICE LINE (50 FT OF TYPE K COPPER)	6	1	0.69	PSI
1.00	WATER METER (XXXX TYPE)	6	2	0.30	PSI
1.00	BACKFLOW PREVENTER (R/P TYPE)	6	3	12.00	PSI
1.00	FILTRATION (WYE FILTER)	6	4	1.00	PSI
1.00	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)	6	6	0.82	PSI
1.00	MASTER CONTROL VALVE	6	7	0.75	PSI
1.00	FLOW SENSOR	6	8	1.00	PSI
1.50	ISOLATION VALVES (BALL TYPE)	6	9	1.00	PSI
1.50	350 FEET OF MAINLINE: HDPE	6	10	4.80	PSI
1.50	10 - 90 DEGREE ELBOWS	6	13	2.33	PSI
1.00	REMOTE CONTROL VALVE ASSEMBLY	6	14	2.50	PSI
10%	LATERAL LINE LOSSES	6	15	3.00	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.96	PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			18	31.1	PSI
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)			19	30.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			20	61.1	PSI
STATIC WATER PRESSURE (FROM ABOVE)			21	95.0	PSI
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)			22	33.9	PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)			23	71.1	PSI
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)			24	N/A	PSI

LICENSED LANDSCAPE ARCHITECT — WILLIAM S. HARRIS 2428 — Signature 08-31-16 Renewal Date — STATE OF CALIFORNIA

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-0830
w: www.sweeneyassoc.com f: (951) 461-0850

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
Landscape Architecture
Urban Design
755 Folger Avenue
Berkeley, CA 94710
t: 510.647.3792
www.hd4a.com

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	DRAWN BY: CB
DATE:	FEB. 2016		REVIEWED BY: DZ

IRRIGATION PLAN
STA: 70+75 TO STA: 73+50

LAKEPORT REDEVELOPMENT AGENCY — DRAWING NUMBER LI-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; L-IXRF.dwg
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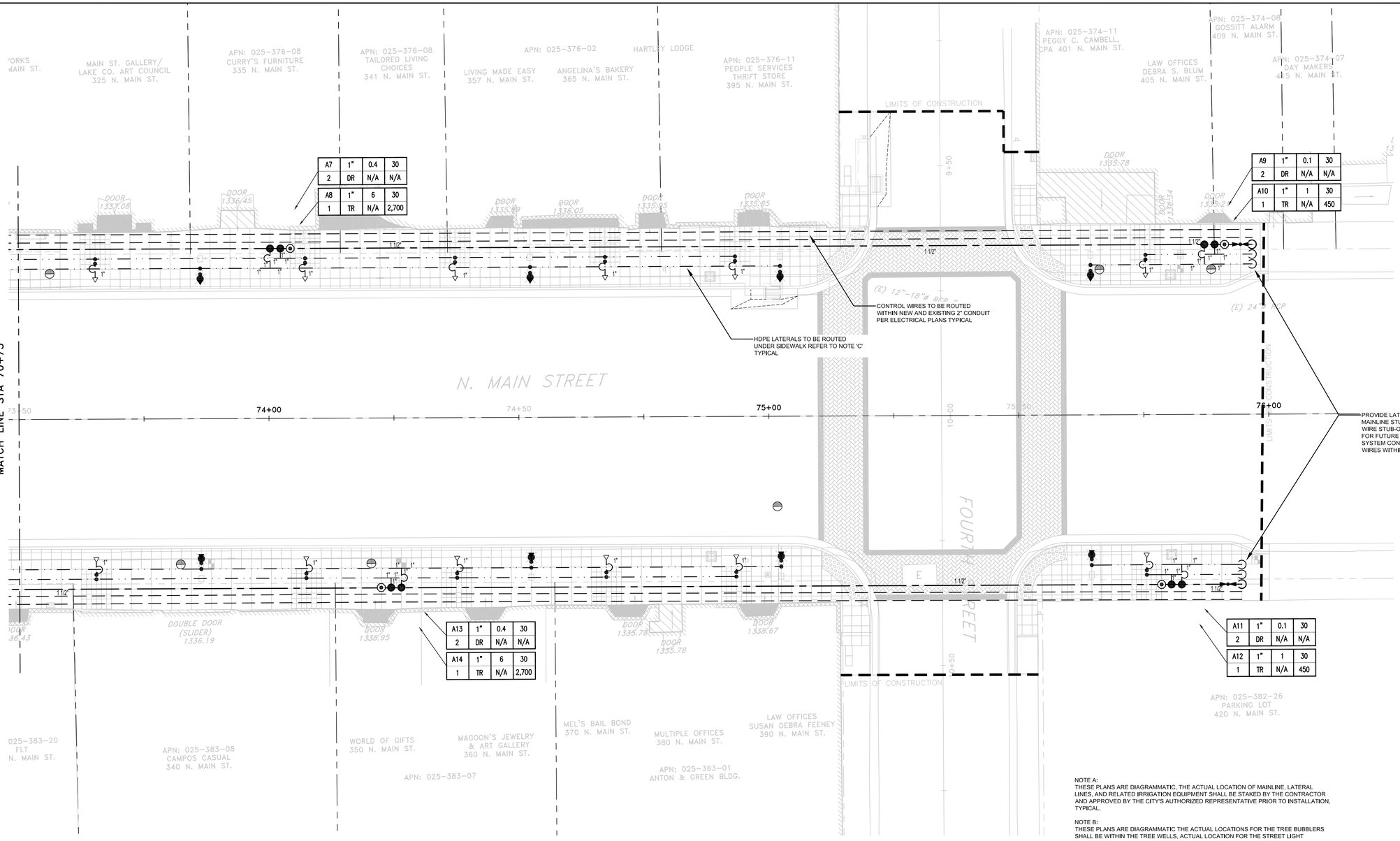

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0 10 20
SCALE: HORZ. 1"=10'

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N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10'	APPROVED BY:	DRAWN BY:	CB
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IRRIGATION PLAN
STA: 73+50 TO STA: 76+00

LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER LI-4 of 70 SHTS

BID SET

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; L-IXRF.dwg
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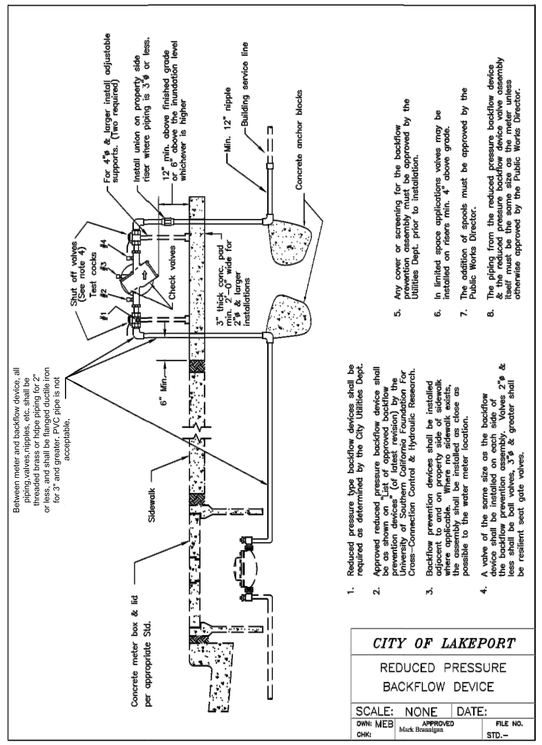

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW. REPLACEMENT OF PRESSURE COMPENSATING SCREENS. REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
12. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
13. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS, SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

VALVE CALLOUT LEGEND

HYDROZONE DESCRIPTION CHART	
NUMBER	DESCRIPTION OF THE HYDROZONE
HZ 1	TREE BUBBLERS ON RISERS
HZ 2	HANGING POTS WITH DRIP EMITTERS

IRRIGATION METHOD DESCRIPTION CHART	
NUMBER	DESCRIPTION OF THE IRRIGATION METHOD
TR	TREE BUBBLERS
DR	DRIP EMITTERS

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
▼	RAIN BIRD	XERI BUG XB-10-6 MULTI-OUTLET DRIP EMITTERS (1.0 GALLON PER HOUR X 6 EMIITERS= 6GPH) WITH TS-025WCAP TUBING STAKE WITH BUG CAP, TO BE CONNECTED TO THE 1/2" FLEX LINE AS PART OF THE LIGHT POLE ASSEMBLY. ALIGN THE EMITTERS WITH PLANTS WITHIN EACH PLANTER BASKET ADJUST LOCATIONS AS NECESSARY TO DISTRIBUTE WATER EVENLY THROUGHOUT PLANTER BASKET TYPICAL. SUPPLY XQ 1/4 DISTRIBUTION (LENGTH AS REQUIRED) TUBING PER EMITTER OUTLET..	0.1	30	N/A	N/A	A
▽	RAIN BIRD	1402 NOZZLE ON RISER, EACH SYMBOL REPRESENTS TWO (2) BUBBLERS PER TREE, PLACE THE BUBBLER HEADS ON OPPOSITE SIDES OF TREE, TYPICAL.	.50 (1.00 TOTAL)	30	N/A	N/A	B
M	P.O.C.	1" POTABLE (DOMESTIC) WATER METER WITH 1" SERVICE LINE. VERIFY METER SIZE, LOCATION AND WATER PRESSURE IN FIELD.					N/A
F	WILKINS	975XLS, 1" R/P BACK FLOW PREVENTION DEVICE WITH GRISWOLD ISOLATOR 'S' SERIES 1" Y-STRAINER WITH 120 MESH FILTER SCREEN AND 500HLR PRESSURE REGULATOR (SET PER PRESSURE CALCULATION) INSTALL WITH BRASS NIPPLES, UNIONS AND FITTINGS, SIZED PER DEVICE					SEE LEFT
NO SYMBOL	V.I.T.	STRONG BOX SBBC-30SS "SMOOTH TOUCH" STAINLESS STEEL BACK FLOW DEVICE ENCLOSURE					N/A
NO SYMBOL	V.I.T.	PBB-30 "POLAR BEARIER" INSULATED BACK FLOW DEVICE COVER, FOR INFORMATION CONTACT V.I.T. PRODUCTS (800) 729-1314					N/A
V	BUCKNER	3100-100 1" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					C
F	CALSENSE	FM-1B 1" BRASS FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX.					D
	WATTS	B6080SS-SH FULL PORT BRONZE VALVE, STAINLESS STEEL BALL, STEM AND HANDLE					E
	RAIN BIRD	33DRC 3/4" QUICK COUPLER VALVE AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					F
	HUNTER	ICV-101G-FS-AS-ADJ PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1" SIZE), SET AS-ADJ PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD TO THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE. INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					G
C	CALSENSE	ET2000e-40-GR-RRe-SSE-R/RRe-TRAN/GR-STUBBY/CPMM 5YR/FM 1B. 40 STATION IRRIGATION CONTROLLER INSTALLED WITHIN STAINLESS STEEL ENCLOSURE, SERIES SSER STAINLESS STEEL ENCLOSURE WITH SSE-PED AS PART OF CONTROLLER ASSEMBLY. PLEASE CALL CALSENSE REP ERIN HAGEN AT 1-(760)-580-1835					H
R	HUNTER	MINI-CLIK RAIN SENSOR, MOUNT TO REAR OF ENCLOSURE AND WIRE TO CONTROLLER					N/A
P	N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
	AS APPROVED	PVC PIPE 1" - 1 1/4" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 24" BELOW FINISHED GRADE					I
	CMF GLOBAL / AQUAFUSE	HDPE IRON PIPE SIZE (IPS) PRESSURE PIPE (PE4710), DR 11 (RATED AT 202 PSI) 2" SIZE, AS MAINLINE PIPE, ALL HDPE PIPE SHALL BE FULLY FUSED USING A MANUFACTURER APPROVED FUSING DEVICE, SEE FUSING AND FITTING REQUIREMENTS BY SIZE BELOW. HDPE MAINLINE SHALL BE INSTALLED 24" BELOW FINISHED GRADE. FOR CONTROL VALVE MANIFOLDS THE HDPE PIPING SHALL BE 2" SIZE WITH 2" HDPE RISERS TO THE CONTROL VALVES REGARDLESS OF CONTROL VALVE SIZE.					I
	AS APPROVED	PVC WIRE CONDUIT, REFER TO ELECTRICAL PLANS					J
	CMF GLOBAL / AQUAFUSE	HDPE IRON PIPE SIZE (IPS) PRESSURE PIPE (PE4710), DR 11 (RATED AT 202 PSI) 1 1/2" SIZE FOR MAINLINES INSTALLED 36" BELOW FINISH GRADE, AND 1" - 1 / 4" SIZE FOR LATERALS, PIPE TO BE ROUTED BETWEEN PLANTERS AND LIGHT POLES AS LATERAL LI.NES INSTALLED 24" BELOW FINISH GRADE. ALL HDPE PIPE SHALL BE FULLY FUSED USING A MANUFACTURER APPROVED FUSING DEVICE, SEE FUSING AND FITTING REQUIREMENTS BY SIZE BELOW.					N/A
	CMF GLOBAL / AQUAFUSE	CONNECTION POINT BETWEEN HDPE PIPING AND PVC IRRIGATION PIPING. HDPE PIPE STUB-OUT SHALL HAVE A LINE SIZED X FIPT HDPE ADAPTER PROVIDED FOR CONNECTION TO THE IRRIGATION PIPING. USE A LINE SIZED X 6" SCH. 80 T.O.E. PVC NIPPLE AND A LINE SIZED PVC COUPLING FOR THE CONNECTION. VERIFY LOCATION, SIZE AND STUB-OUTS OF HDPE PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
NO SYMBOL	CMF GLOBAL / AQUAFUSE	ALL 11/2" HDPE MAINLINE AND 11/2" MANIFOLDS SHALL HAVE SOCKET FUSED HDPE FITTINGS. ALL HDPE MAINLINE AND MANIFOLD PIPE SHALL HAVE 100% FUSED CONNECTIONS.					N/A
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BODIED CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	AS APPROVED	1" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR AND MASTER VALVE. PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					L
NO SYMBOL	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP.					N/A
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					K
NO SYMBOL	NDS (K.B.I.)	KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	CHRISTY'S	CONCRETE VALVE BOXES WITH CAST IRON LIDS, CONFIRM VALVE BOX LOCATIONS IN FIELD WITH ENGINEER PRIOR TO INSTALLATION.					N/A

IRRIGATION CONTROLLER RUN TIMES

POC or Controller		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
A	ETo / Month (Inches):	0.94	1.74	2.78	4.15	5.86	7.27	7.76	6.83	5.38	3.28	1.51	0.87	**48.37**
	ETo / Day (Inches):	0.03	0.06	0.09	0.14	0.19	0.24	0.25	0.22	0.18	0.11	0.05	0.03	**0.13**
	Irrigation Days / Week:	6	6	6	6	6	6	6	6	6	6	6	6	

Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Hanging Pots	0.40	0.72	0.81	1.5	3.0	4.3	6.6	9.1	11.6	12.0	10.6	8.6	5.1	2.4	1.3	Min./Day/Zone
Drip Emitters	**Number of Zones:**		10	**14.6**	**29.8**	**43.1**	**66.4**	**90.8**	**116.3**	**120.2**	**105.8**	**86.1**	**50.8**	**24.2**	**13.5**	**Total Min./Day**
Trees	1.00	1.14	0.81	2.3	4.7	6.8	10.5	14.3	18.4	19.0	16.7	13.6	8.0	3.8	2.1	Min./Day/Zone
Bubblers	**Number of Zones:**		10	**23.0**	**47.1**	**68.0**	**104.9**	**143.3**	**183.7**	**189.8**	**167.0**	**135.9**	**80.2**	**38.2**	**21.3**	**Total Min./Day**
	Total Number of Zones:		**20**	38	77	111	171	234	300	310	273	222	131	62	35	Total Min./Day
	Total Controller Run Time in Hours:			**0.63**	**1.28**	**1.85**	**2.85**	**3.90**	**5.00**	**5.17**	**4.55**	**3.70**	**2.18**	**1.04**	**0.58**	**Total Hrs./Day**
				JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	

Note: **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
39730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6850
w: www.sweeneyassoc.com f: (951) 461-6850

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
Landscape Architecture
Urban Design
755 Folger Avenue
Berkeley, CA 94710
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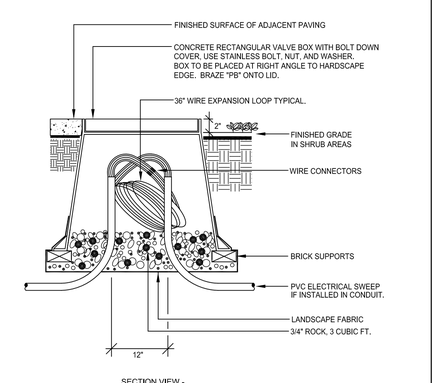
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.
SCALE: 1"=10' APPROVED BY:
DRAWN BY: CB
DATE: FEB. 2016
REVIEWED BY: DZ
IRRIGATION LEGEND
STA: 73+50 TO STA: 76+00
LAKEPORT REDEVELOPMENT AGENCY
DRAWING NUMBER LI-5 of 70 SHTS

BID SET



SECTION VIEW - N.T.S.

SECTION VIEW - N.T.S.
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(L) PULL BOX

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; L-IXRF.dwg
Path: W:\Projects\2015 Projects\15.11 Lakeport Final Design\CAD\CAD Irrigation-From Sweeney-Bid Set Revised-20160210\LDI_LI-LAYOUT.dwg Plot Date: Feb 11, 2016 at 16:15

Xrefs: LDI_CX-ROW_APN.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_LX-TBLOCK.DWG; HD-logo-horiz.dwg; L-IXRF.dwg
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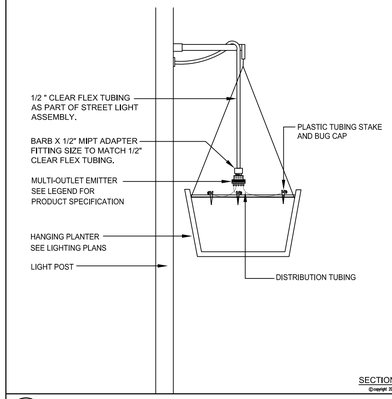
BID SET



SECTION VIEW - N.T.S.

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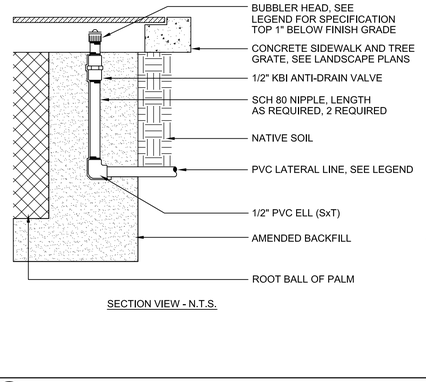
A HANGING POT DRIP EMMITERS



SECTION VIEW - N.T.S.

PLAN VIEW - N.T.S.

N.T.S.

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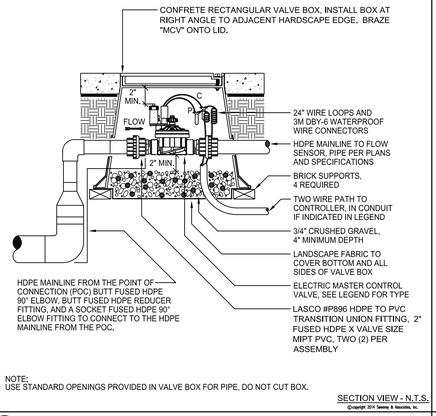
B TREE GRATE BUBBLER LAYOUT



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

SECTION VIEW - N.T.S.

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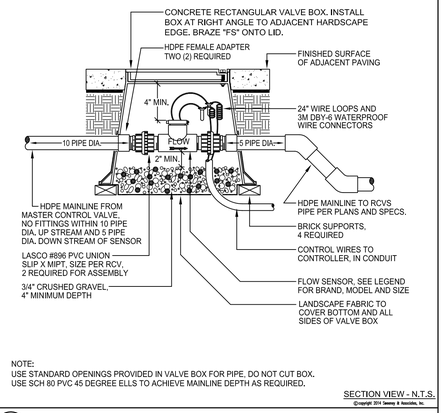
C MASTER CONTROL VALVE



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.
USE SCH 80 PVC 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH AS REQUIRED.

SECTION VIEW - N.T.S.

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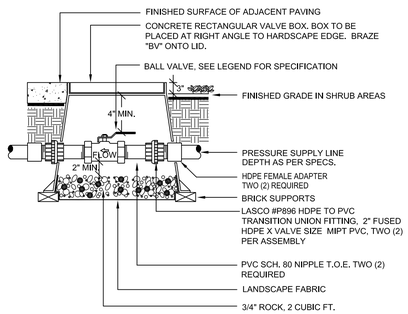
D BRASS FLOW SENSOR



NOTE:
BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF BALL VALVE
INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE, INSTALL VALVE OFF-CENTER IN BOX.

INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

SECTION VIEW - N.T.S.

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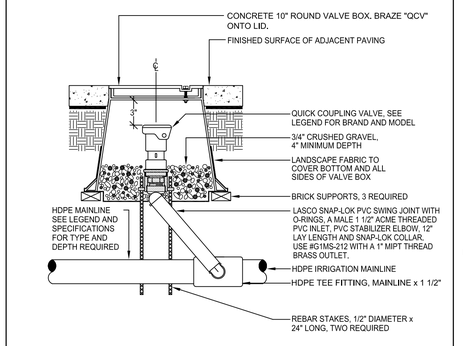
E BALL VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

SECTION VIEW - N.T.S.

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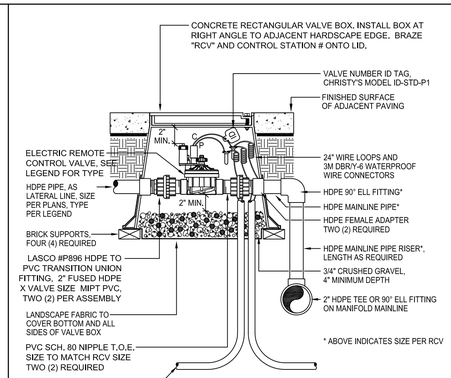
F QUICK COUPLER VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

SECTION VIEW - N.T.S.

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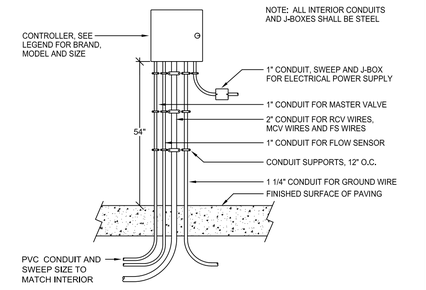
G REMOTE CONTROL VALVE



SECTION VIEW - N.T.S.

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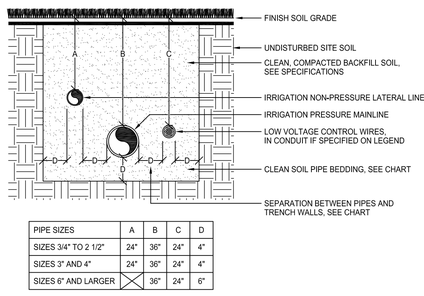
H WALL MOUNTED CONT. ASSEMBLY



PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	24"	36"	24"	4"
SIZES 3" AND 4"	24"	36"	24"	4"
SIZES 6" AND LARGER	36"		24"	6"

SECTION VIEW - N.T.S.

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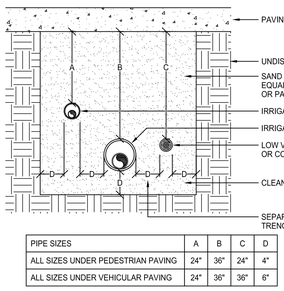
I PIPE INSTALLATION



PIPE SIZES	A	B	C	D
ALL SIZES UNDER PEDESTRIAN PAVING	24"	36"	24"	4"
ALL SIZES UNDER VEHICULAR PAVING	24"	36"	36"	6"

NOTE:
SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

SECTION VIEW - N.T.S.

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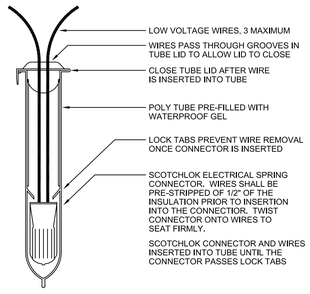
J SLEEVE INSTALLATION



NOTE:
WIRE CONNECTOR SHALL BE A 3M DBR/Y-6 DIRECT BURY SPLICE KIT (U.L. APPROVED).

KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

SECTION VIEW - N.T.S.

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K WIRE CONNECTION

LICENSED LANDSCAPE ARCHITECT
WILLIAM S. HARRIS 2428
Signature
08-31-16
Renewal Date
STATE OF CALIFORNIA

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

HARRIS DESIGN
Landscape Architecture
Urban Design
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Berkeley, CA 94710
t: 510.647.3792
www.hd-la.com

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IRRIGATION DESIGN AND CONSULTING
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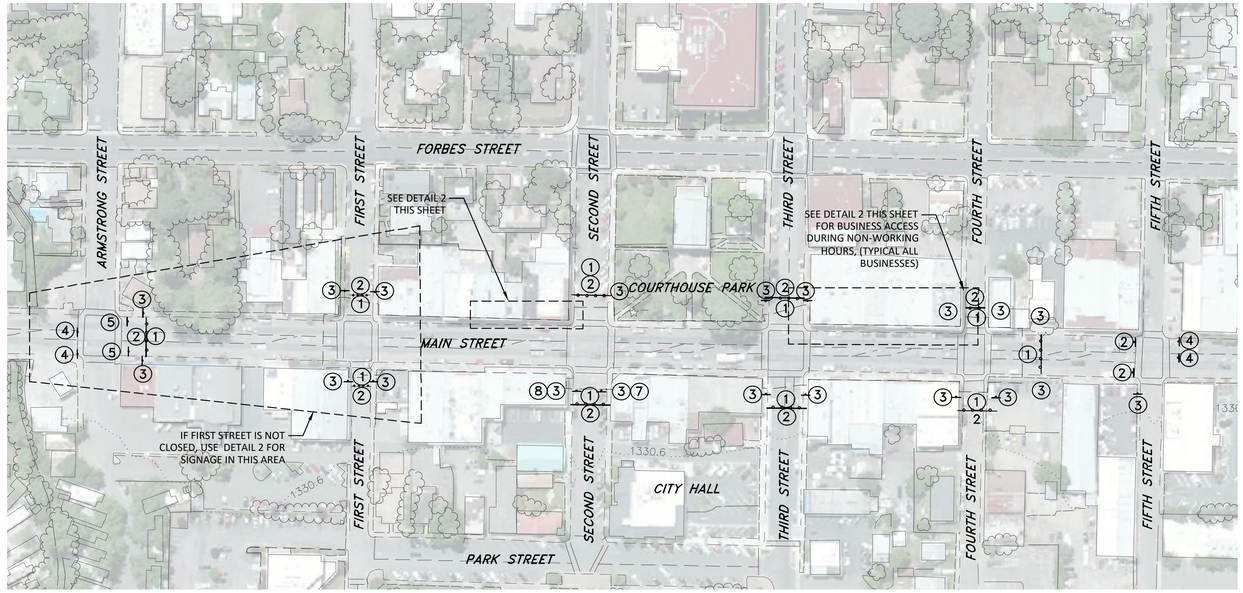
e: info@sweeneyassoc.com t: (951) 461-6850
w: www.sweeneyassoc.com f: (951) 461-6850

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

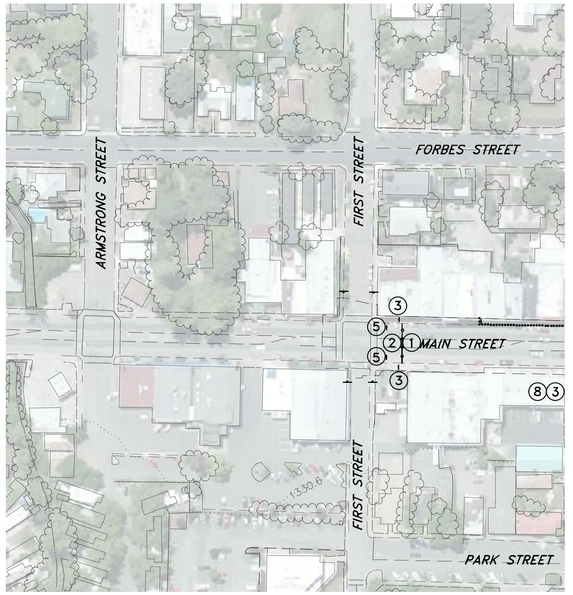
SCALE: 1"=10'	APPROVED BY:	DRAWN BY: CB
DATE: FEB. 2016		REVIEWED BY: DZ

IRRIGATION DETAILS
STA: 73+50 TO STA: 76+00

LAKEPORT REDEVELOPMENT AGENCY | DRAWING NUMBER LI-6 of 70 SHTS



ALT 1 - FIRST STREET CLOSED



ALT 2 - FIRST STREET OPEN

0 100 200
SCALE IN FEET

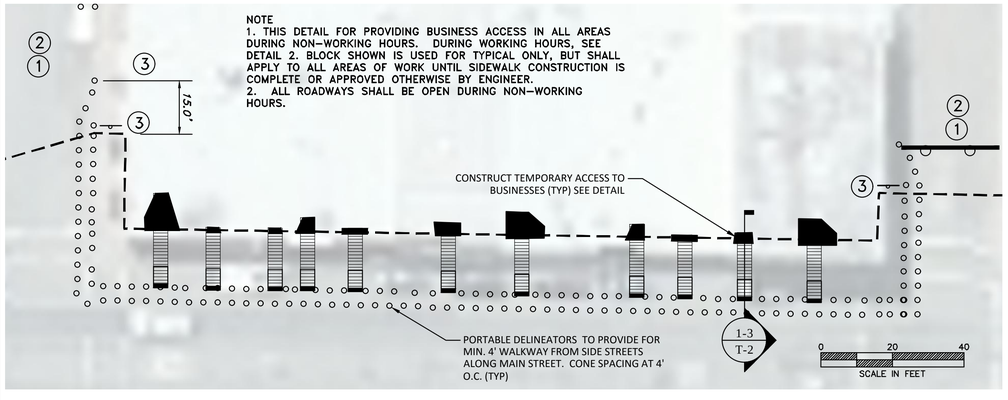
1 TRAFFIC CONTROL LAYOUT DETAIL

OVERALL LAYOUT DURING WORKING HOURS

N.T.S.

TRAFFIC CONTROL NOTES

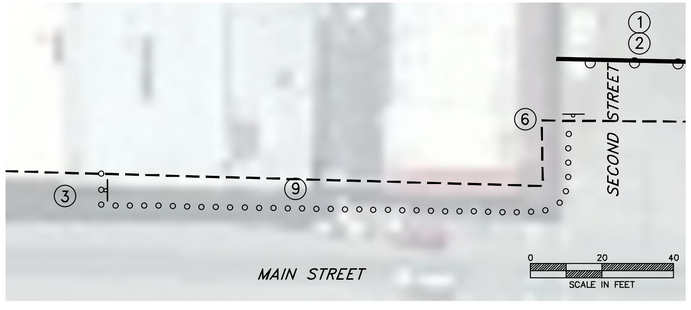
1. TRAFFIC CONTROL DIAGRAM IS SCHEMATIC ONLY.
2. CONTRACTOR SHALL SUBMIT FINAL TRAFFIC CONTROL PLAN, SIGNED AND STAMPED BY A LICENSED ENGINEER, TO CITY ENGINEER 7 DAYS PRIOR TO BEGINNING WORK AND RECEIVE WRITTEN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING.



2 TRAFFIC CONTROL LAYOUT DETAIL

NON-WORKING HOURS - ALL BUSINESSES (TYP)

N.T.S.



3 TRAFFIC CONTROL LAYOUT DETAIL

WORKING HOURS - SELECT BUSINESSES

N.T.S.

Main Street Traffic Control Device Notes

Note	Traffic Control Device	Application Notes
1	Type III Barricade with Beacons	Provide one flashing beacon for each 4 feet of street width. Individual barricades shall have a maximum gap of 24 inches between curb and end of barricade or end of barricade to end of barricade.
2	R11-2	Place two signs at each closure with one sign centered on the travel lane for each direction but facing oncoming traffic.
3	R9-9 and Type I Barricade	Place Continuous Type I barracades across sidewalk with on R-9-9 sign and a single flashing beacon . Maximum of 6 inch gap between barricades
4	R101 and Type I Barricade	Place stop sign on Type I with flashing beacon Place on sign at edge of travel way and on in center turn lane.
5	M4-9A	At Armstrong Street (when used) , place 2 signs at each roadway edge on Type III barricades pointing west. At Fifth and First)when used), place one sign on west roadway edge pointing right and one on east edge pointing left.
6	Custom Sign- 3 inch letters, black letters on white background	"Pedestrian Access to Old World Tavern Only"
7	Custom Sign- 3 inch letters, black letters on white background	"Pedestrians - Use Rear Access to Clearlake Club"
8	Custom Sign- 3 inch letters, black letters on white background	"Pedestrian - Use Rear Access to Logans Bar"
9	Portable Delineators	Place at 4 foot intervals along sidewalk from corner to building entrance.

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

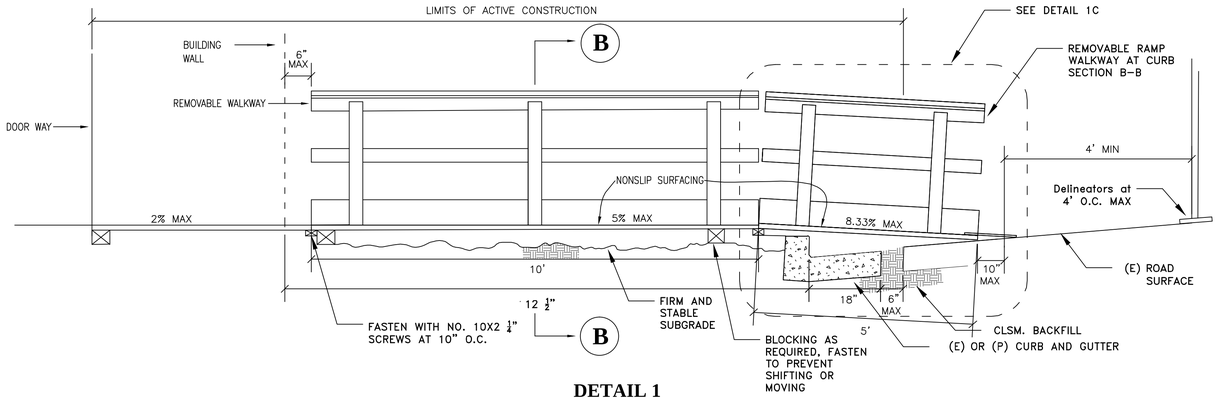
SCALE: 1"= 100' APPROVED BY: DRAWN BY: RRH
DATE: FEB 2016 REVIEWED BY: CAM

PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN

CITY OF LAKEPORT DRAWING NUMBER T-1 of 70 SHTS

BID SET

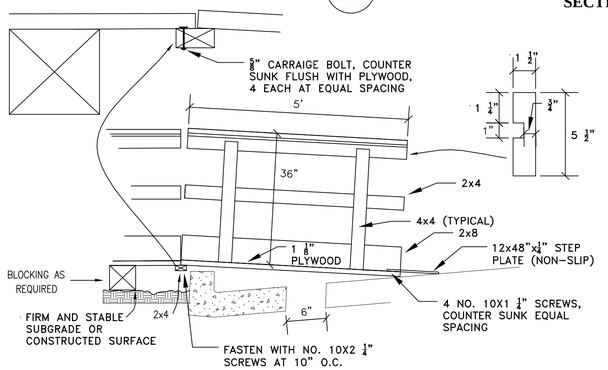
Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-CITY TOPO.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219_X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-TRAFFIC_CONTROL.dwg Plot Date: Feb 18, 2016 at 12:34



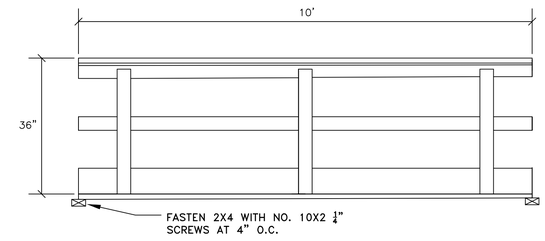
DETAIL 1

1B **Temporary Walkway Section and Pedestrian Path**

SECTION A-A

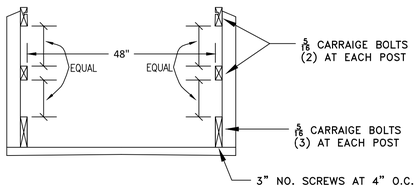


1C **Ramp Walkway at Curb**



1D **Walkway at Sidewalk**

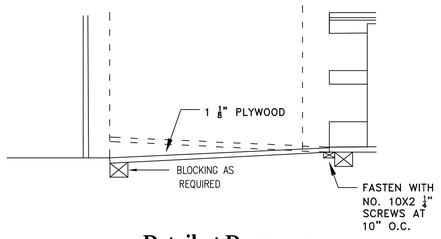
SECTION C-C



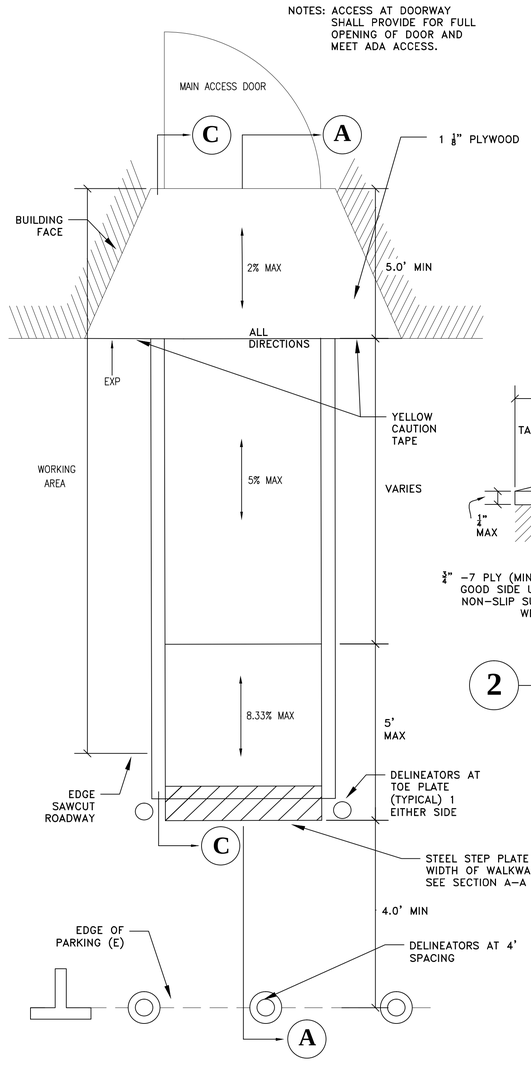
1E **Walkway Cross Sections**

SECTION B-B

NOTES: PROTECT CONSTRUCTED SURFACES FROM DAMAGE BY TEMPORARY RAMPS. DRAWINGS ARE SCHEMATIC ONLY. CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING SAFE, SECURE, STABLE PEDESTRIAN ACCESS WALKWAYS COMPLIANT WITH CAL OSHA FOR THE DURATION OF THE PROJECT.

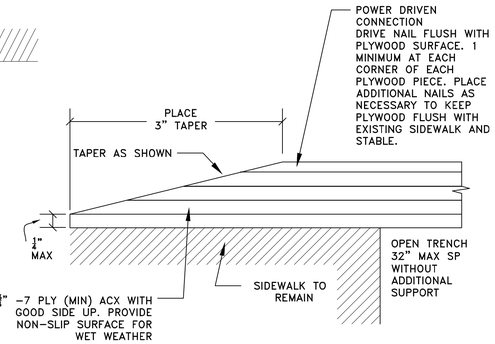


1F **Detail at Doorways**



1A **Pedestrian Access Details**

PLAN VIEW



DETAIL 2

2 **Temporary Plywood Trench Cover**

IN SIDEWALK ONLY

PEDESTRIAN ACCESS DETAIL NOTES:
1. TRAFFIC CONTROL DETAILS ARE SCHEMATIC ONLY.
2. CONTRACTOR SHALL SUBMIT FINAL PEDESTRIAN ACCESS DETAILS, SIGNED AND STAMPED BY A LICENSED ENGINEER TO CITY ENGINEER 7 DAYS PRIOR TO BEGINNING WORK AND RECEIVE WRITTEN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING.

BID SET

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

FEB. 18, 2016

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100 N. Pine Street Ukiah, CA 95482

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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

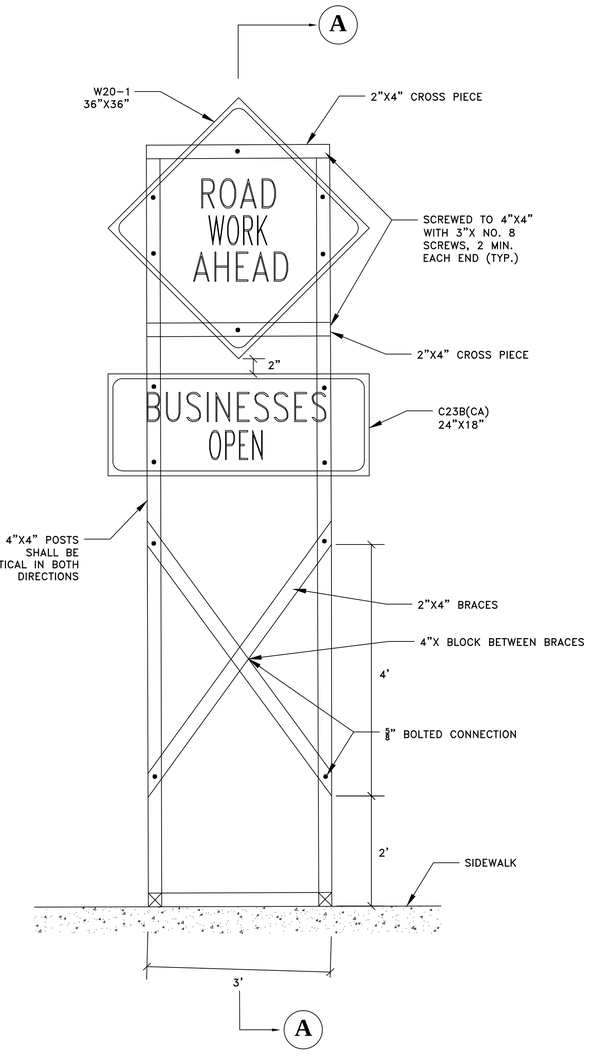
SCALE: AS NOTED	APPROVED BY:	DRAWN BY:	NRA
DATE: FEB. 2016		REVIEWED BY:	CAM

PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN DETAILS

CITY OF LAKEPORT

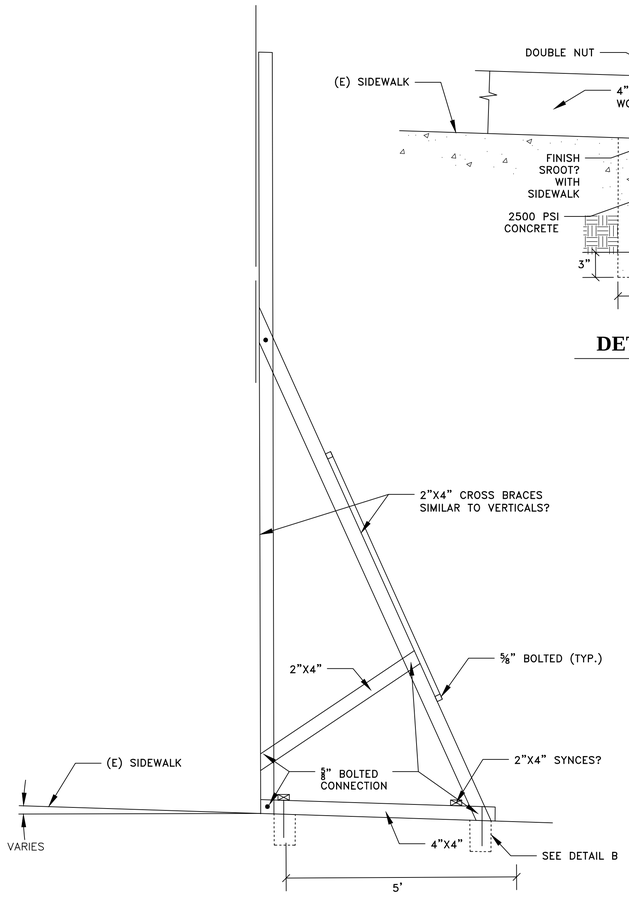
DRAWING NUMBER T-2 OF 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-CITY TOPO.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-TRAFFIC_CONTROL.dwg Plot Date: Feb 18, 2016 at 12:34



1A **Project Entry Sign (10 Required)**

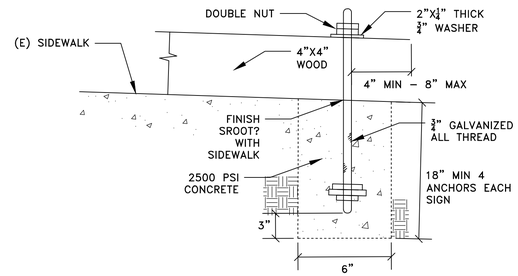
FRONT VIEW



1B **Side View**

SECTION A-A

CUT ALL THREADS FLUSH WHERE REMOVED.

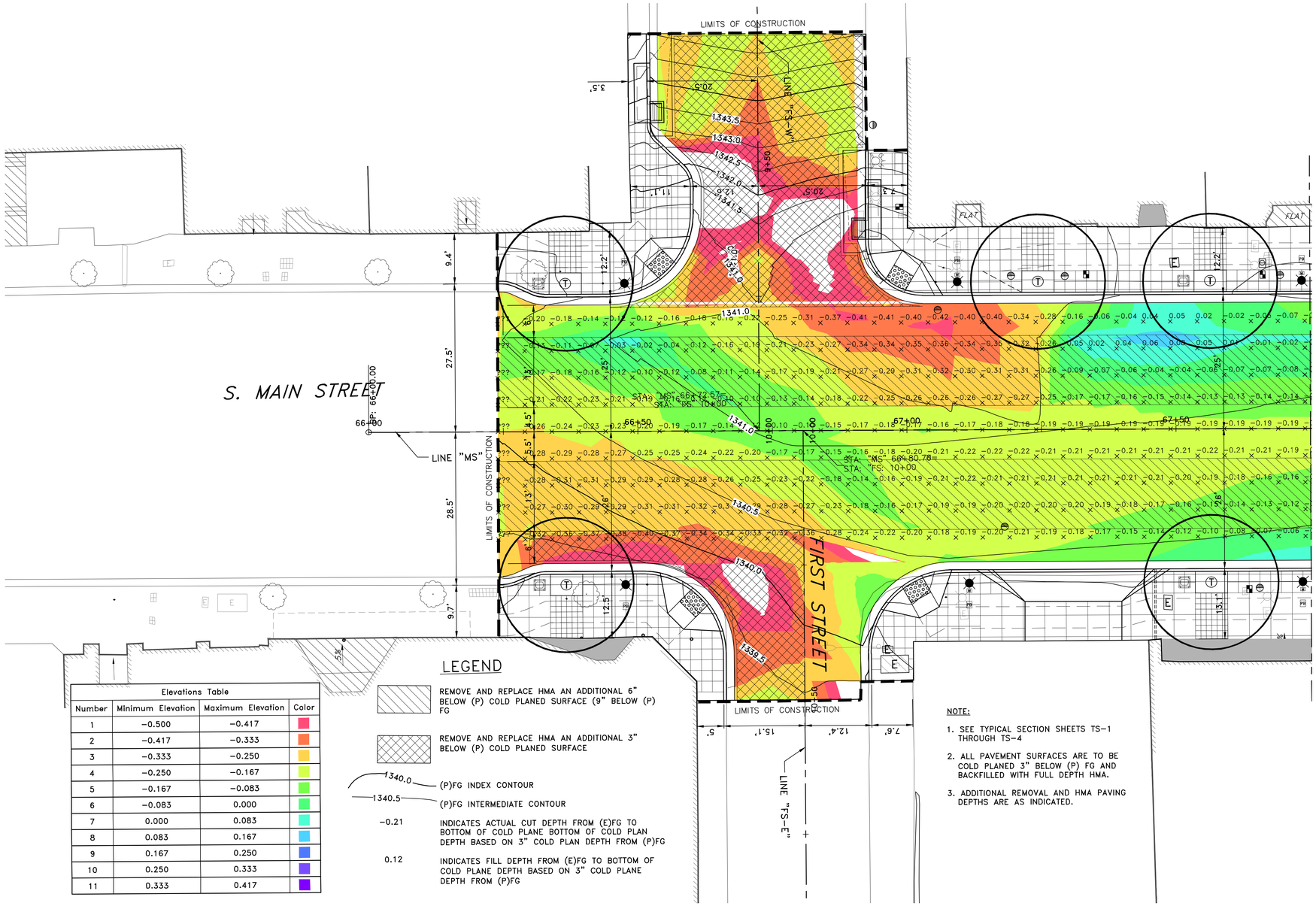


DETAIL B

BID SET

PROJECT ENGINEER: CATHY A. McKEON		Crawford & Associates, Inc. Geotechnical Engineering, Design and Construction Services 100 N. Pine Street Ukiah, CA 95482	LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II N. MAIN STREET LAKEPORT, CA.
LICENSE: NO. 51026	EXP.: 9-30-17		SCALE: AS NOTED / APPROVED BY: / DRAWN BY: NRA
VERIFY SCALE 0 1/2 1 2 3 BAR REPRESENTS THREE INCHES ON ORIGINAL	FEB. 18, 2016	RAU AND ASSOCIATES INC. CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482	DATE: FEB. 2016 / REVIEWED BY: CAM
			PRELIMINARY TRAFFIC & PEDESTRIAN CONTROL PLAN DETAILS
			CITY OF LAKEPORT / DRAWING NUMBER T-3 OF 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_CX-CITY TOPO.dwg; LDI_RX-EX_TOPO.dwg
Path: S:\AutoCAD Civil 3D\Projects\15-219.X-City of Lakeport DT Improvements\Drawings\Crawford\LDI_CP-TRAFFIC_CONTROL.dwg Plot Date: Feb 18, 2016 at 13:00



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.500	−0.417	
2	−0.417	−0.333	
3	−0.333	−0.250	
4	−0.250	−0.167	
5	−0.167	−0.083	
6	−0.083	0.000	
7	0.000	0.083	
8	0.083	0.167	
9	0.167	0.250	
10	0.250	0.333	
11	0.333	0.417	

LEGEND

REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG

REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE

1340.0 — (P)FG INDEX CONTOUR

1340.5 — (P)FG INTERMEDIATE CONTOUR

−0.21 — INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG

0.12 — INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS−1 THROUGH TS−4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9−30−17
VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9−30−17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS − PHASE II
S. MAIN STREET LAKEPORT, CA.

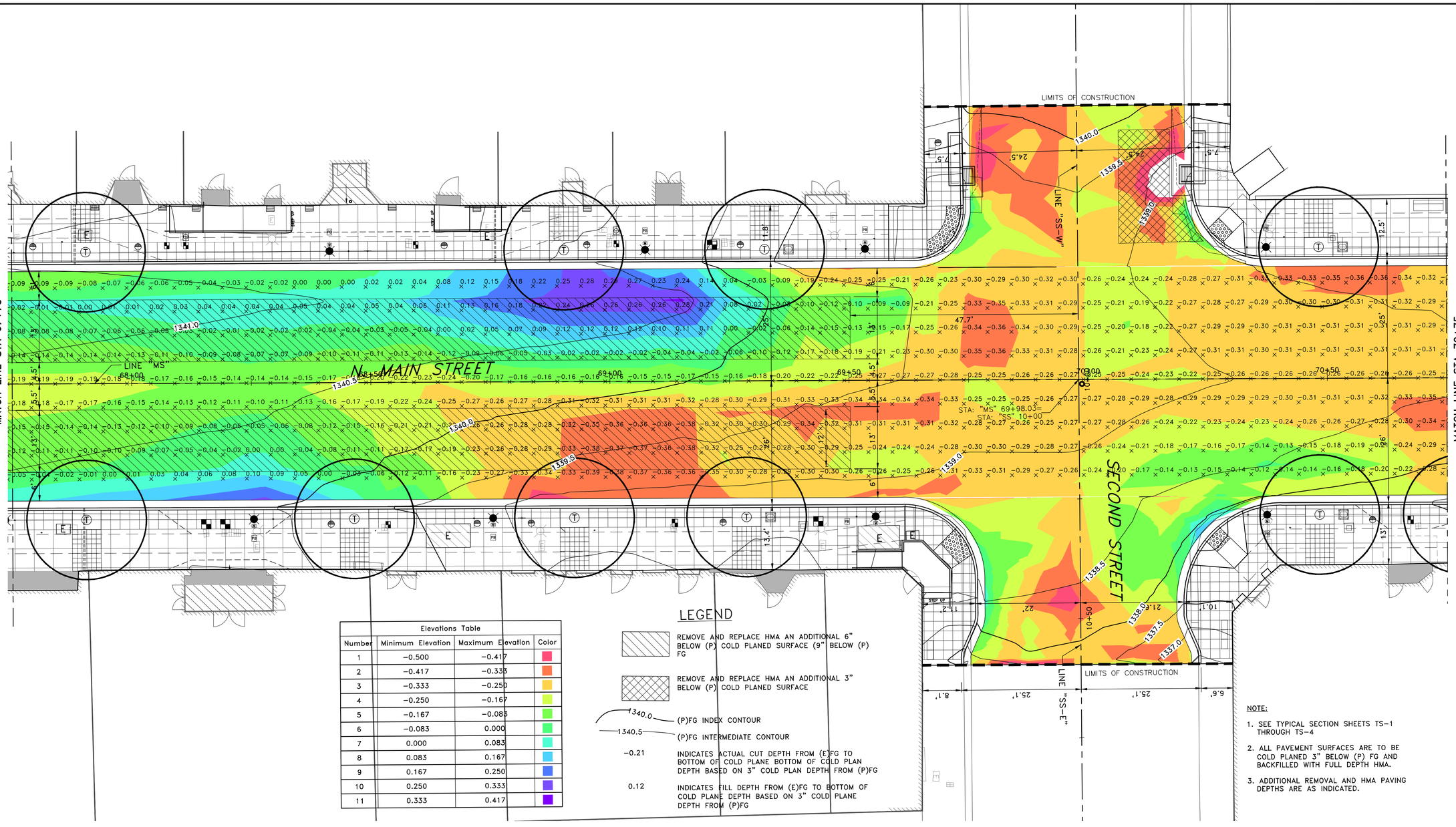
SCALE:	1"=10'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2106		REVIEWED BY: CAM

PAVEMENT PLAN
STA: 64+75 TO STA: 67+75

CITY OF LAKEPORT — DRAWING NUMBER CL−1 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
Path: C:\Users\Mike\appdata\local\Temp\AcPublish_5044\LDI_CP-LAYOUT_SHTS.DWG Plot Date: Feb 18, 2016 at 12:47



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.500	-0.417	
2	-0.417	-0.333	
3	-0.333	-0.250	
4	-0.250	-0.167	
5	-0.167	-0.083	
6	-0.083	0.000	
7	0.000	0.083	
8	0.083	0.167	
9	0.167	0.250	
10	0.250	0.333	
11	0.333	0.417	

LEGEND

REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG

REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE

1340.0 (P)FG INDEX CONTOUR

1340.5 (P)FG INTERMEDIATE CONTOUR

-0.21 INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG

0.12 INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS-1 THROUGH TS-4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

BID SET

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. MCKEON
NO. 51026
EXP. 9-30-17
CIVIL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

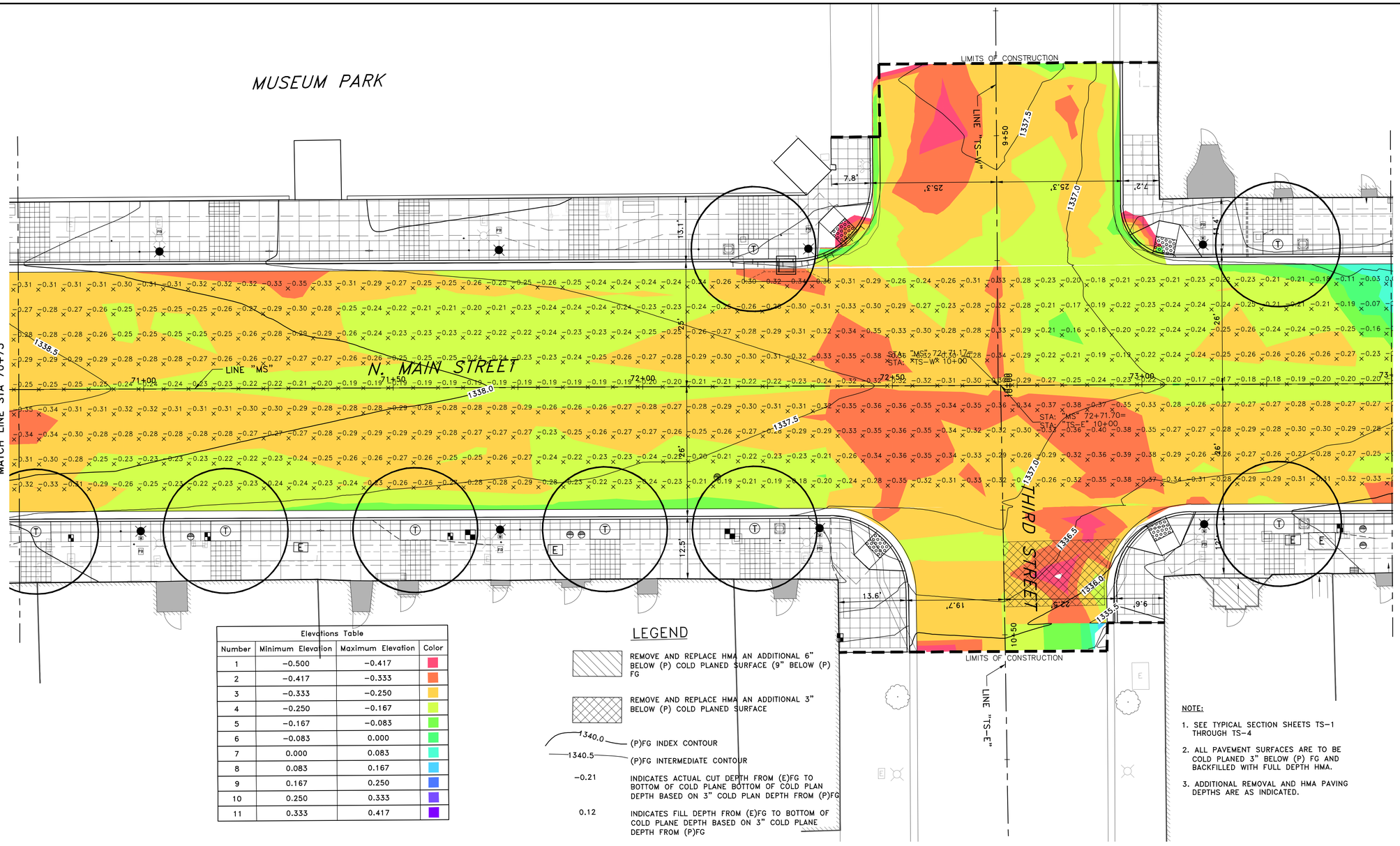
LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"=10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

PAVEMENT PLAN
STA: 67+75 TO STA: 70+75

CITY OF LAKEPORT
DRAWING NUMBER CL-2 of 70 SHTS

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-LAYOUT_SHTS.DWG Plot Date: Feb 18, 2016 at 12:47



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.500	−0.417	
2	−0.417	−0.333	
3	−0.333	−0.250	
4	−0.250	−0.167	
5	−0.167	−0.083	
6	−0.083	0.000	
7	0.000	0.083	
8	0.083	0.167	
9	0.167	0.250	
10	0.250	0.333	
11	0.333	0.417	

LEGEND

REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG

REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE

1340.0 — (P)FG INDEX CONTOUR

1340.5 — (P)FG INTERMEDIATE CONTOUR

−0.21 — INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG

0.12 — INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS−1 THROUGH TS−4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9−30−17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9−30−17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462−6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS − PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	
DATE:	FEB. 2016	DRAWN BY:	MAW
		REVIEWED BY:	CAM

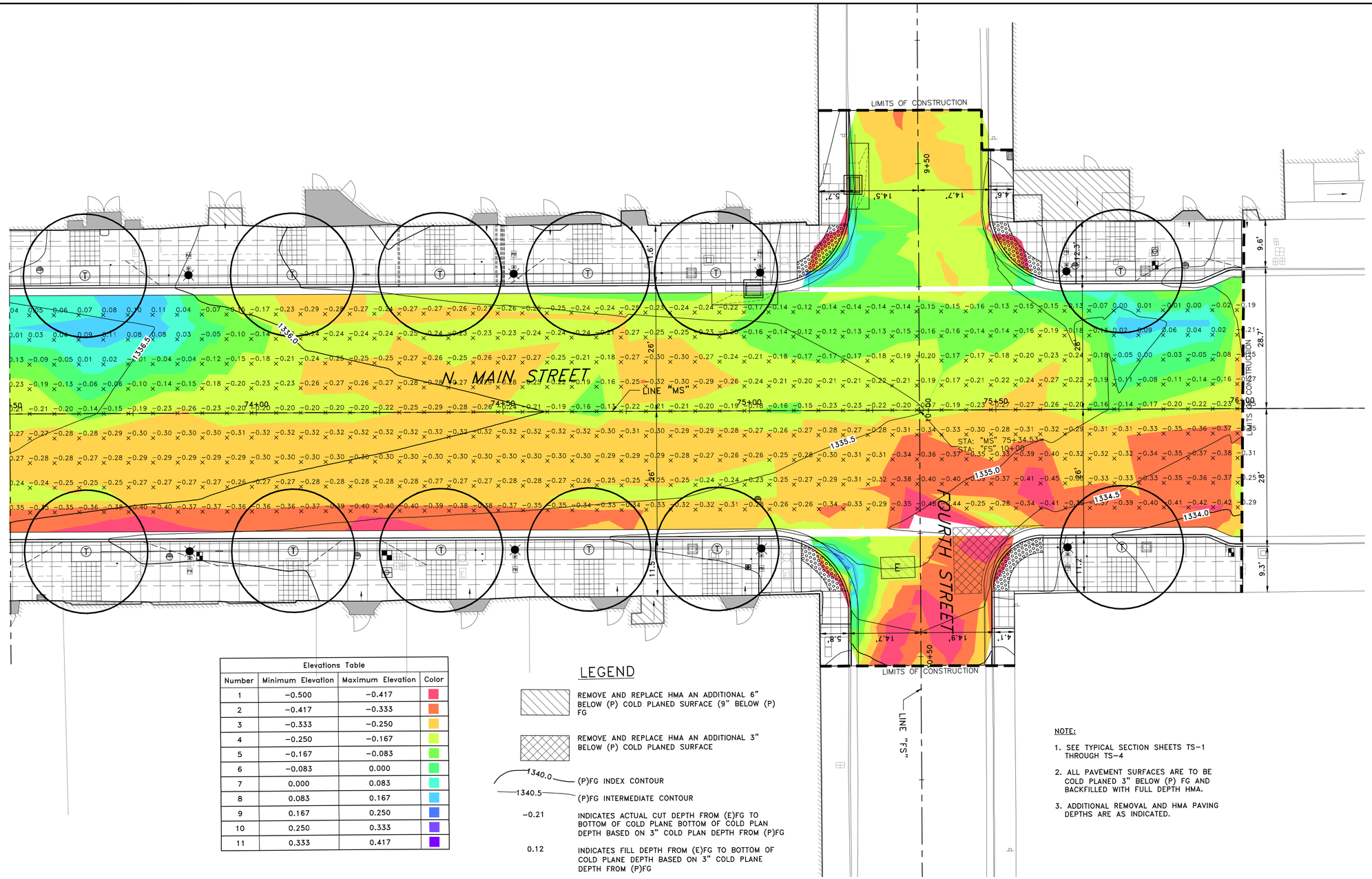
PAVEMENT PLAN
STA: 70+75 TO STA: 73+50

CITY OF LAKEPORT — DRAWING NUMBER CL-3 of 70 SHTS

BID SET

Xrefs: LDI_CX-TBLOCK.dwg; LDI_RX-EX_TOPO.dwg; LDI_CX-BASE_NoBulbouts.dwg; LDI_CX-ROW_APN.dwg
Path: C:\Users\Mike\appdata\local\Temp\AcPublish_5044\LDI_CP-LAYOUT_SHTS.DWG Plot Date: Feb 18, 2016 at 12:47

(SEE SHEET CL-3)
MATCH LINE STA 70+75



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.500	−0.417	
2	−0.417	−0.333	
3	−0.333	−0.250	
4	−0.250	−0.167	
5	−0.167	−0.083	
6	−0.083	0.000	
7	0.000	0.083	
8	0.083	0.167	
9	0.167	0.250	
10	0.250	0.333	
11	0.333	0.417	

LEGEND

REMOVE AND REPLACE HMA AN ADDITIONAL 6" BELOW (P) COLD PLANED SURFACE (9" BELOW (P) FG

REMOVE AND REPLACE HMA AN ADDITIONAL 3" BELOW (P) COLD PLANED SURFACE

1340.0 — (P)FG INDEX CONTOUR

1340.5 — (P)FG INTERMEDIATE CONTOUR

−0.21 — INDICATES ACTUAL CUT DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE BOTTOM OF COLD PLAN DEPTH BASED ON 3" COLD PLAN DEPTH FROM (P)FG

0.12 — INDICATES FILL DEPTH FROM (E)FG TO BOTTOM OF COLD PLANE DEPTH BASED ON 3" COLD PLANE DEPTH FROM (P)FG

NOTE:

1. SEE TYPICAL SECTION SHEETS TS−1 THROUGH TS−4
2. ALL PAVEMENT SURFACES ARE TO BE COLD PLANED 3" BELOW (P) FG AND BACKFILLED WITH FULL DEPTH HMA.
3. ADDITIONAL REMOVAL AND HMA PAVING DEPTHS ARE AS INDICATED.

0 10 20
SCALE: HORZ. 1"=10'

PROJECT ENGINEER: CATHY A. McKEON
LICENSE: NO. 51026 EXP.: 9−30−17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

REGISTERED PROFESSIONAL ENGINEER
CATHY A. McKEON
NO. 51026
EXP. 9−30−17
CIV IL
STATE OF CALIFORNIA
FEB. 18, 2016

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS − PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE:	1"=10'	APPROVED BY:	DRAWN BY: MAW
DATE:	FEB. 2016		REVIEWED BY: CAM

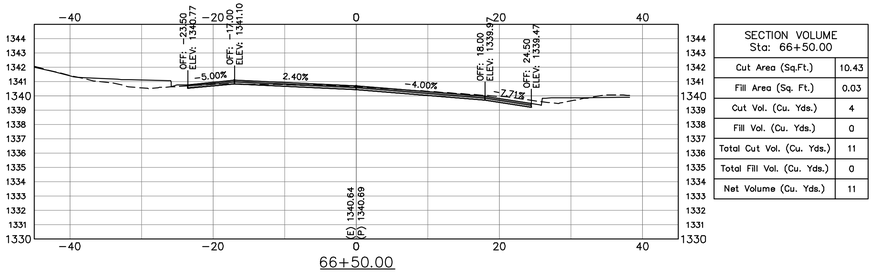
PAVEMENT PLAN
STA: 73+50 TO STA: 76+00

CITY OF LAKEPORT

DRAWING NUMBER
CL−4 of 70 SHTS

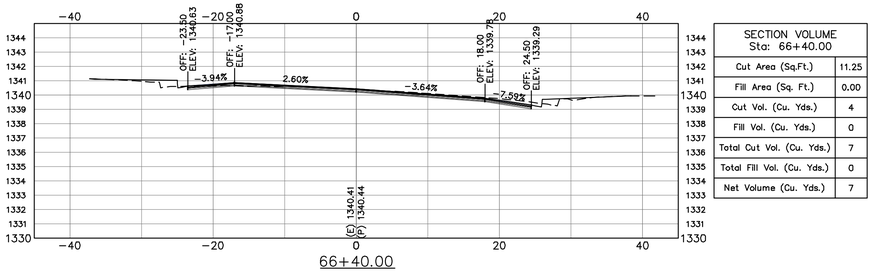
BID SET

Xrefs: LDI_CX−TBLOCK.dwg; LDI_RX−EX_TOPO.dwg; LDI_CX−BASE_NoBulbouts.dwg; LDI_CX−ROW_APN.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP−LAYOUT_SHTS.DWG Plot Date: Feb 18, 2016 at 12:47



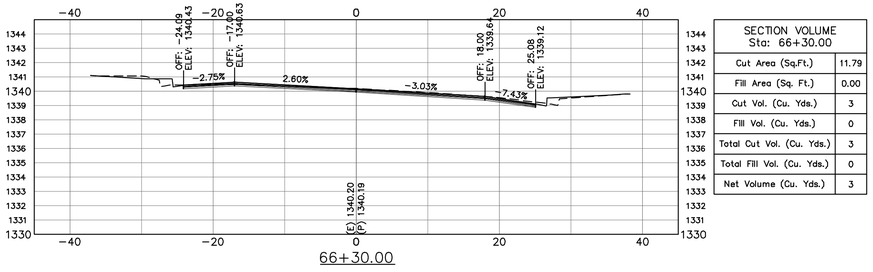
66+50.00

SECTION VOLUME Sta: 66+50.00	
Cut Area (Sq.Ft.)	10.43
Fill Area (Sq. Ft.)	0.03
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	11
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	11



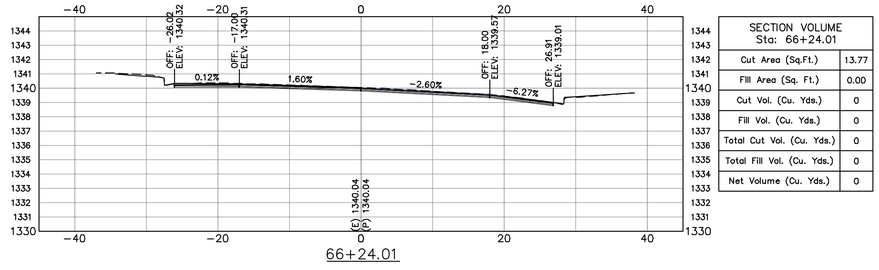
66+40.00

SECTION VOLUME Sta: 66+40.00	
Cut Area (Sq.Ft.)	11.25
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	7
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	7



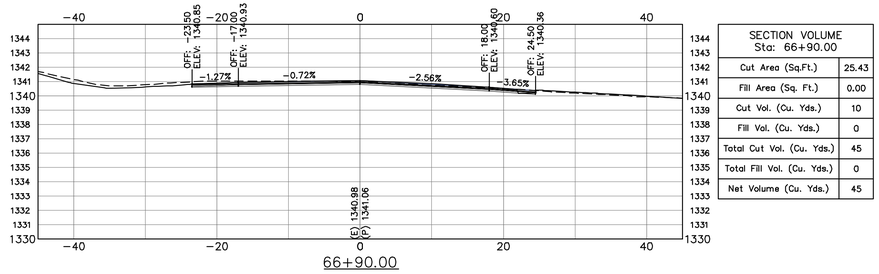
66+30.00

SECTION VOLUME Sta: 66+30.00	
Cut Area (Sq.Ft.)	11.79
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	3
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	3



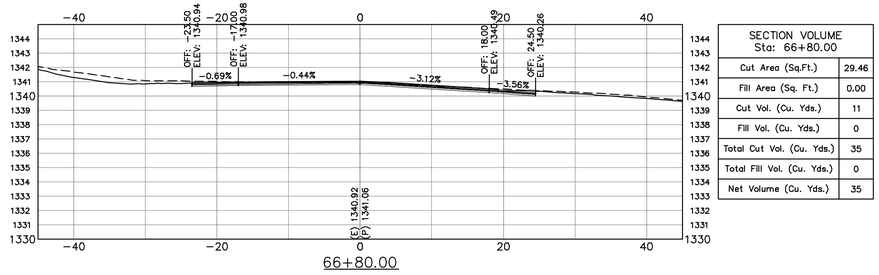
66+24.01

SECTION VOLUME Sta: 66+24.01	
Cut Area (Sq.Ft.)	13.77
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	0
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	0
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	0



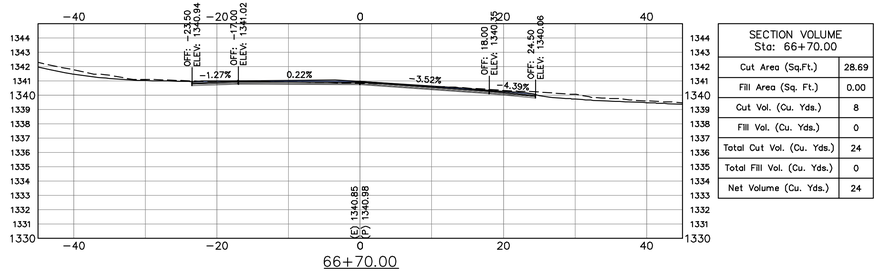
66+90.00

SECTION VOLUME Sta: 66+90.00	
Cut Area (Sq.Ft.)	25.43
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	10
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	45
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	45



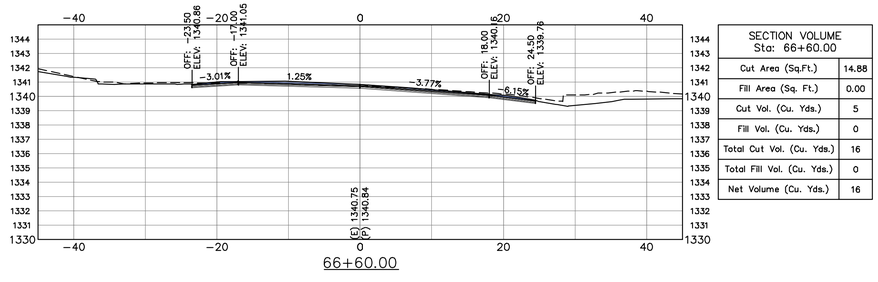
66+80.00

SECTION VOLUME Sta: 66+80.00	
Cut Area (Sq.Ft.)	29.46
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	11
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	35
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	35



66+70.00

SECTION VOLUME Sta: 66+70.00	
Cut Area (Sq.Ft.)	28.69
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	8
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	24
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	24



66+60.00

SECTION VOLUME Sta: 66+60.00	
Cut Area (Sq.Ft.)	14.88
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	16
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	16

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET· (707) 462-6536 · UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

CROSS SECTIONS
STA: 66+24 TO STA: 66+90

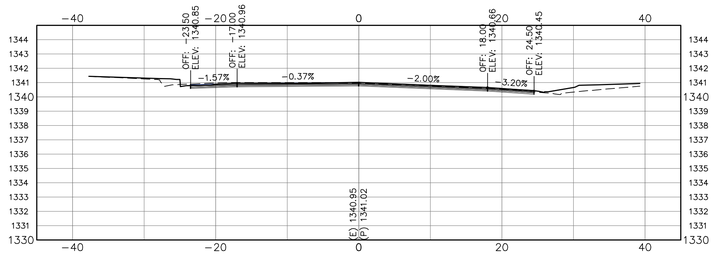
CITY OF LAKEPORT

DRAWING NUMBER X-1 of SHTS 13

BID SET

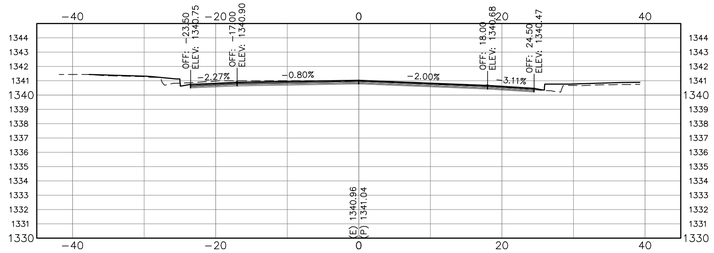
Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\Temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:48

SECTION VOLUME Sta: 67+30.00	
Cut Area (Sq.Ft.)	7.31
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	64
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	64



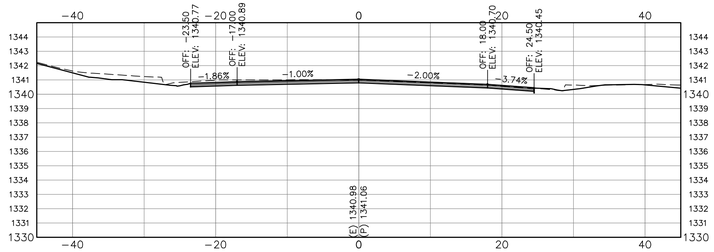
67+20.00

SECTION VOLUME Sta: 67+20.00	
Cut Area (Sq.Ft.)	11.79
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	61
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	61



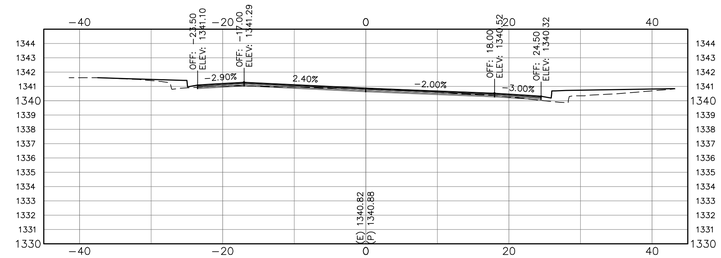
67+10.00

SECTION VOLUME Sta: 67+10.00	
Cut Area (Sq.Ft.)	12.24
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	56
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	56



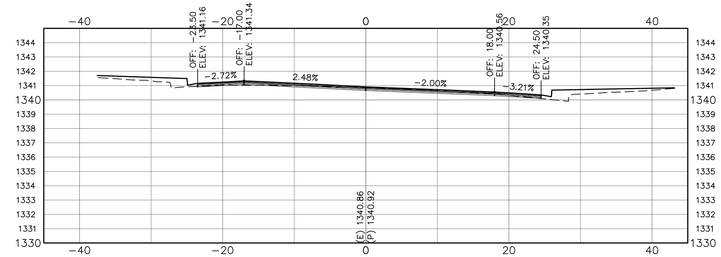
67+00.00

SECTION VOLUME Sta: 67+00.00	
Cut Area (Sq.Ft.)	12.59
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	7
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	52
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	52



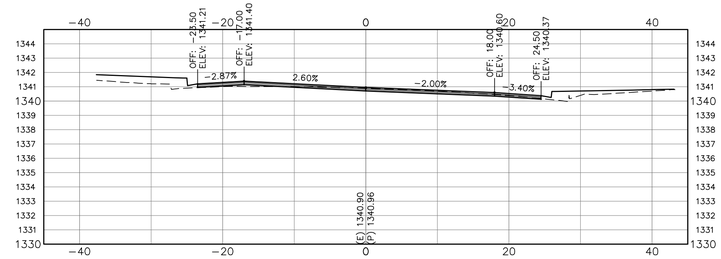
67+70.00

SECTION VOLUME Sta: 67+70.00	
Cut Area (Sq.Ft.)	5.12
Fill Area (Sq. Ft.)	0.05
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	73
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	72



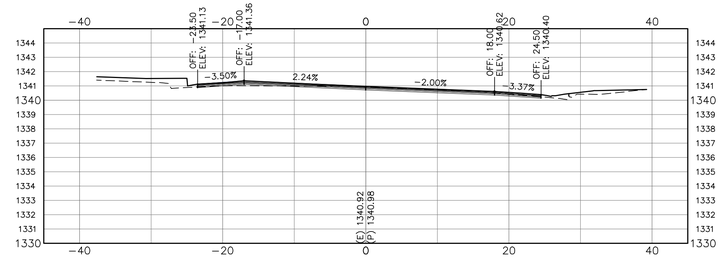
67+60.00

SECTION VOLUME Sta: 67+60.00	
Cut Area (Sq.Ft.)	5.10
Fill Area (Sq. Ft.)	0.09
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	71
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	71



67+50.00

SECTION VOLUME Sta: 67+50.00	
Cut Area (Sq.Ft.)	5.34
Fill Area (Sq. Ft.)	0.64
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	69
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	69



67+40.00

SECTION VOLUME Sta: 67+40.00	
Cut Area (Sq.Ft.)	6.10
Fill Area (Sq. Ft.)	0.29
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	67
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	67

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

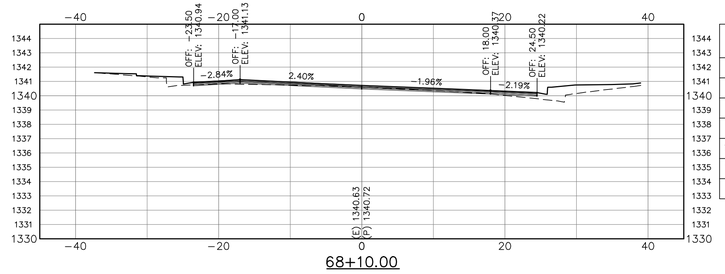
CROSS SECTIONS
STA: 67+00 TO STA: 67+70

CITY OF LAKEPORT

DRAWING NUMBER X-2 of SHTS 13

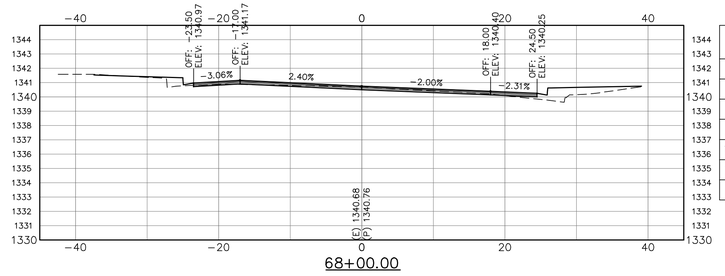
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:48



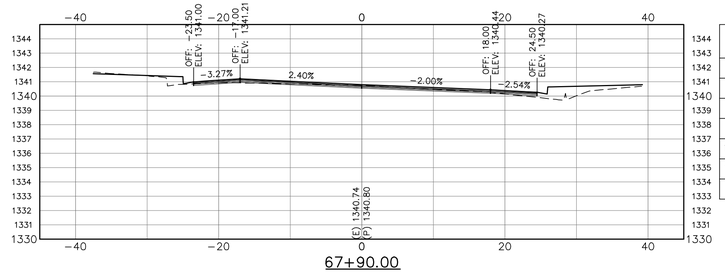
68+10.00

SECTION VOLUME Sta: 68+10.00	
Cut Area (Sq.Ft.)	3.00
Fill Area (Sq. Ft.)	0.74
Cut Vol. (Cu. Yds.)	1
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	79
Total Fill Vol. (Cu. Yds.)	1
Net Volume (Cu. Yds.)	78



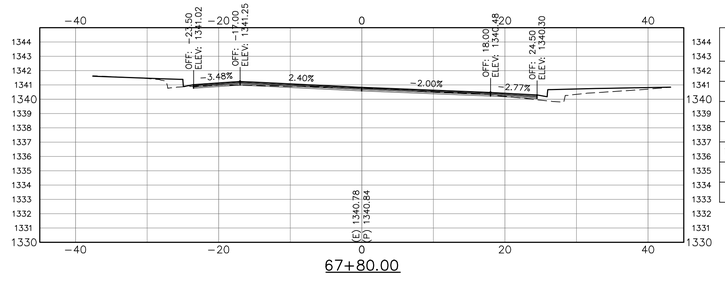
68+00.00

SECTION VOLUME Sta: 68+00.00	
Cut Area (Sq.Ft.)	3.90
Fill Area (Sq. Ft.)	0.45
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	78
Total Fill Vol. (Cu. Yds.)	1
Net Volume (Cu. Yds.)	77



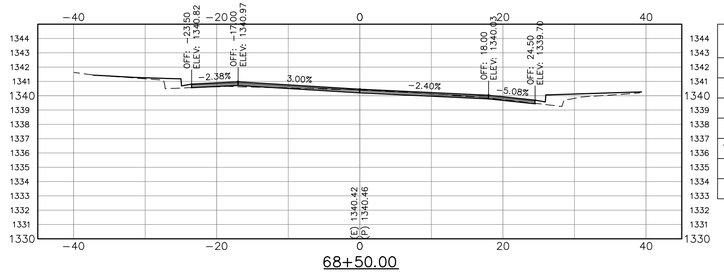
67+90.00

SECTION VOLUME Sta: 67+90.00	
Cut Area (Sq.Ft.)	4.60
Fill Area (Sq. Ft.)	0.29
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	77
Total Fill Vol. (Cu. Yds.)	1
Net Volume (Cu. Yds.)	76



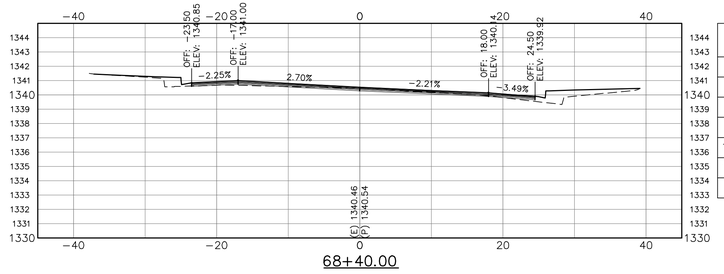
67+80.00

SECTION VOLUME Sta: 67+80.00	
Cut Area (Sq.Ft.)	4.98
Fill Area (Sq. Ft.)	0.14
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	75
Total Fill Vol. (Cu. Yds.)	0
Net Volume (Cu. Yds.)	74



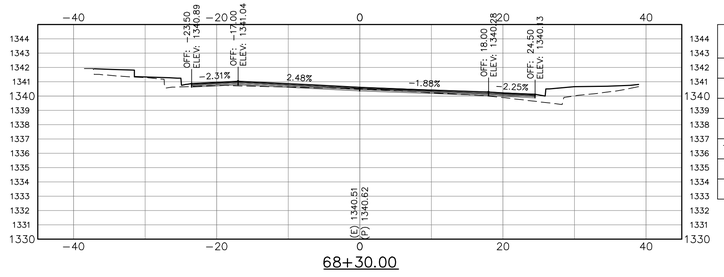
68+50.00

SECTION VOLUME Sta: 68+50.00	
Cut Area (Sq.Ft.)	4.40
Fill Area (Sq. Ft.)	0.37
Cut Vol. (Cu. Yds.)	1
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	84
Total Fill Vol. (Cu. Yds.)	2
Net Volume (Cu. Yds.)	82



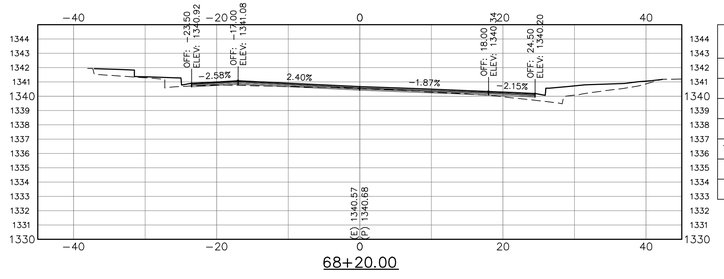
68+40.00

SECTION VOLUME Sta: 68+40.00	
Cut Area (Sq.Ft.)	3.54
Fill Area (Sq. Ft.)	0.44
Cut Vol. (Cu. Yds.)	1
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	82
Total Fill Vol. (Cu. Yds.)	2
Net Volume (Cu. Yds.)	80



68+30.00

SECTION VOLUME Sta: 68+30.00	
Cut Area (Sq.Ft.)	2.17
Fill Area (Sq. Ft.)	1.09
Cut Vol. (Cu. Yds.)	1
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	81
Total Fill Vol. (Cu. Yds.)	2
Net Volume (Cu. Yds.)	80



68+20.00

SECTION VOLUME Sta: 68+20.00	
Cut Area (Sq.Ft.)	2.20
Fill Area (Sq. Ft.)	1.04
Cut Vol. (Cu. Yds.)	1
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	80
Total Fill Vol. (Cu. Yds.)	1
Net Volume (Cu. Yds.)	79

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

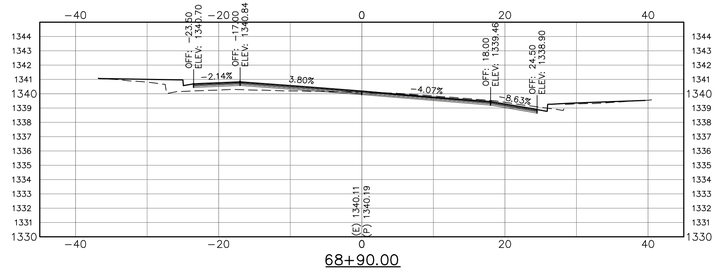
SCALE: 1"= 10' | APPROVED BY: | DRAWN BY: MAW
DATE: FEB. 2016 | REVIEWED BY: CAM

CROSS SECTIONS
STA: 67+80 TO STA: 68+50

CITY OF LAKEPORT | DRAWING NUMBER X-3 of SHTS 13

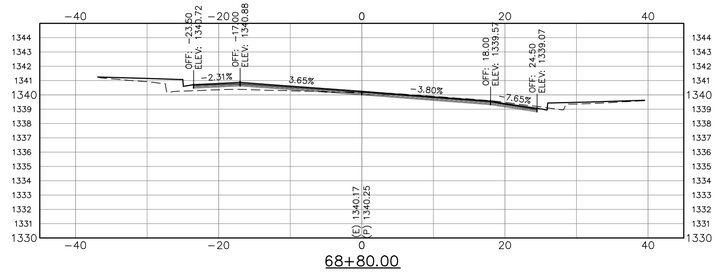
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:48



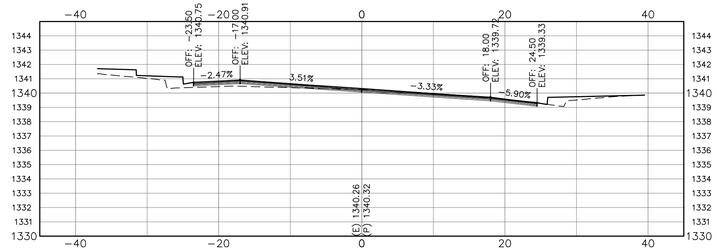
68+90.00

SECTION VOLUME Sta: 68+90.00	
Cut Area (Sq.Ft.)	8.38
Fill Area (Sq. Ft.)	3.39
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	1
Total Cut Vol. (Cu. Yds.)	94
Total Fill Vol. (Cu. Yds.)	4
Net Volume (Cu. Yds.)	89



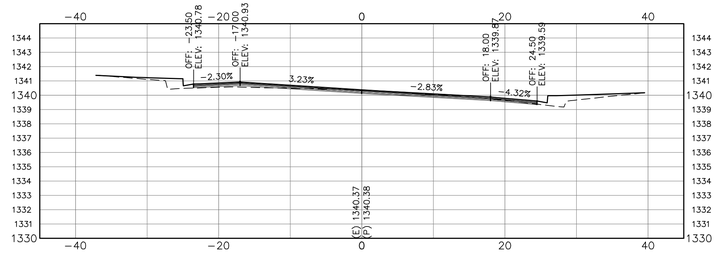
68+80.00

SECTION VOLUME Sta: 68+80.00	
Cut Area (Sq.Ft.)	7.59
Fill Area (Sq. Ft.)	2.43
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	1
Total Cut Vol. (Cu. Yds.)	91
Total Fill Vol. (Cu. Yds.)	3
Net Volume (Cu. Yds.)	87



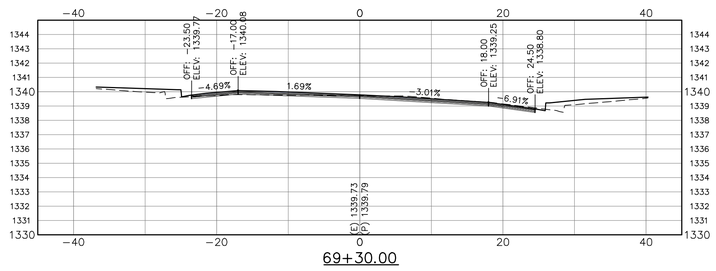
68+70.00

SECTION VOLUME Sta: 68+70.00	
Cut Area (Sq.Ft.)	6.93
Fill Area (Sq. Ft.)	1.56
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	88
Total Fill Vol. (Cu. Yds.)	3
Net Volume (Cu. Yds.)	85



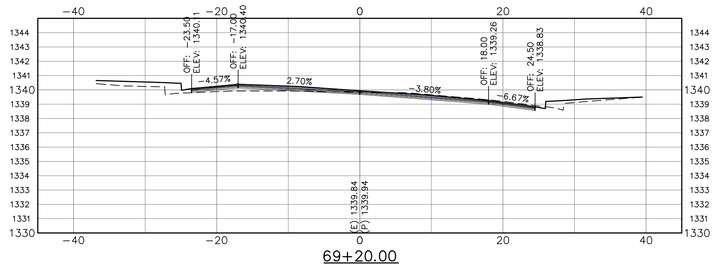
68+60.00

SECTION VOLUME Sta: 68+60.00	
Cut Area (Sq.Ft.)	5.88
Fill Area (Sq. Ft.)	0.63
Cut Vol. (Cu. Yds.)	2
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	86
Total Fill Vol. (Cu. Yds.)	2
Net Volume (Cu. Yds.)	83



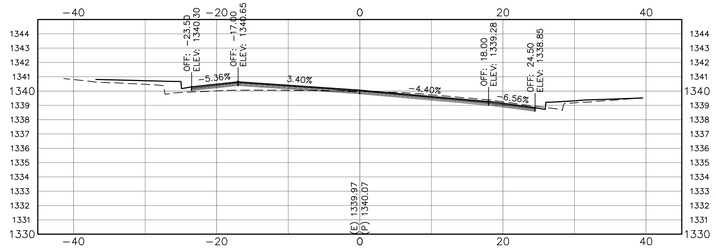
69+30.00

SECTION VOLUME Sta: 69+30.00	
Cut Area (Sq.Ft.)	8.23
Fill Area (Sq. Ft.)	0.10
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	106
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	98



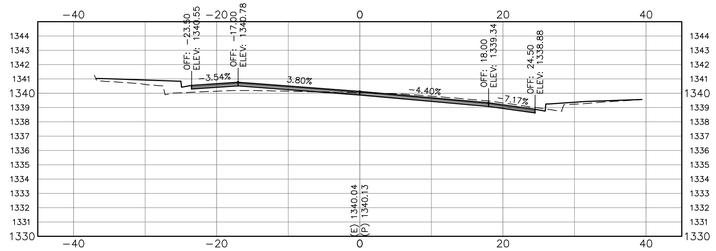
69+20.00

SECTION VOLUME Sta: 69+20.00	
Cut Area (Sq.Ft.)	7.68
Fill Area (Sq. Ft.)	2.05
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	1
Total Cut Vol. (Cu. Yds.)	103
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	95



69+10.00

SECTION VOLUME Sta: 69+10.00	
Cut Area (Sq.Ft.)	8.70
Fill Area (Sq. Ft.)	3.02
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	1
Total Cut Vol. (Cu. Yds.)	100
Total Fill Vol. (Cu. Yds.)	7
Net Volume (Cu. Yds.)	93



69+00.00

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

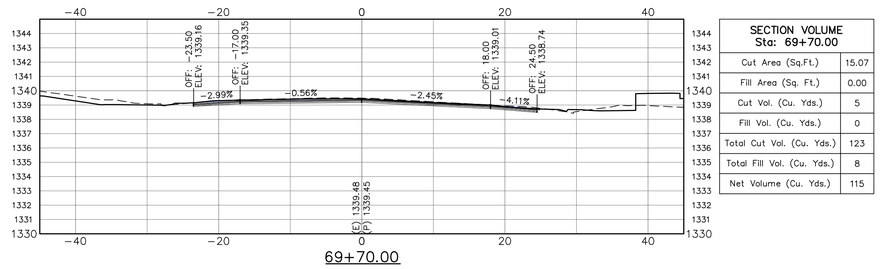
CROSS SECTIONS
STA: 68+60 TO STA: 69+30

CITY OF LAKEPORT

DRAWING NUMBER X-4 of SHTS 13

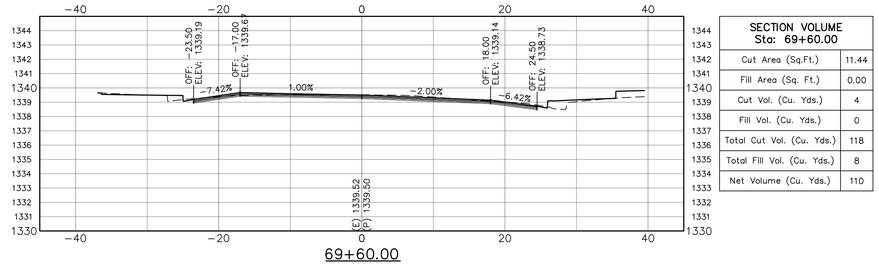
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:48



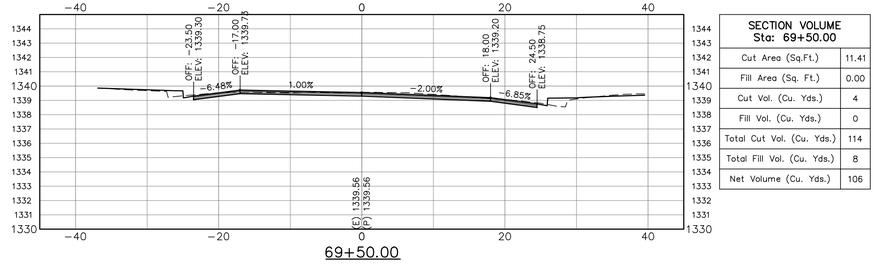
69+70.00

SECTION VOLUME Sta: 69+70.00	
Cut Area (Sq.Ft.)	15.07
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	123
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	115



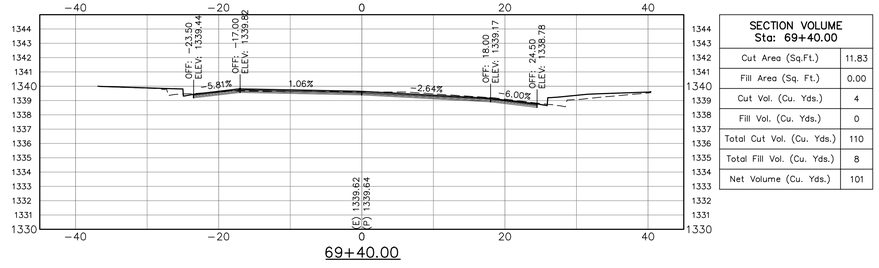
69+60.00

SECTION VOLUME Sta: 69+60.00	
Cut Area (Sq.Ft.)	11.44
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	118
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	110



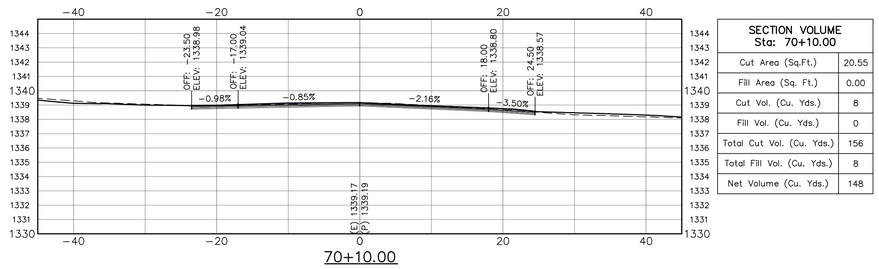
69+50.00

SECTION VOLUME Sta: 69+50.00	
Cut Area (Sq.Ft.)	11.41
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	114
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	106



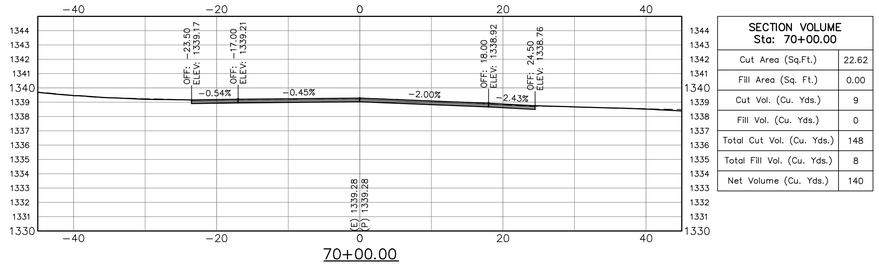
69+40.00

SECTION VOLUME Sta: 69+40.00	
Cut Area (Sq.Ft.)	11.83
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	110
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	101



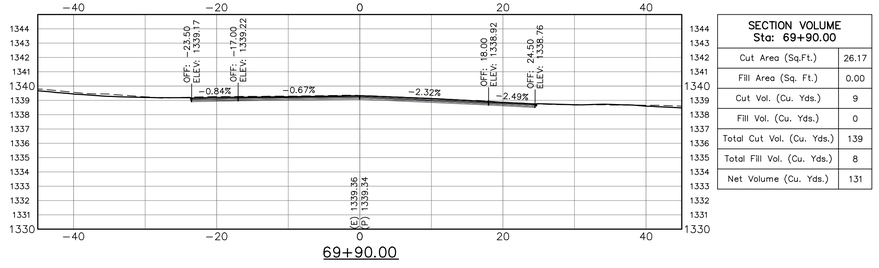
70+10.00

SECTION VOLUME Sta: 70+10.00	
Cut Area (Sq.Ft.)	20.55
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	8
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	156
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	148



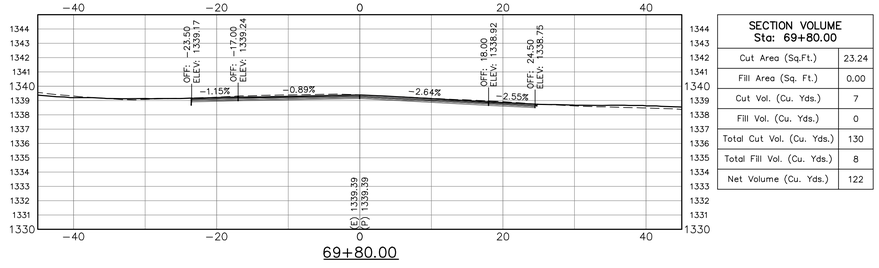
70+00.00

SECTION VOLUME Sta: 70+00.00	
Cut Area (Sq.Ft.)	22.62
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	148
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	140



69+90.00

SECTION VOLUME Sta: 69+90.00	
Cut Area (Sq.Ft.)	26.17
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	139
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	131



69+80.00

SECTION VOLUME Sta: 69+80.00	
Cut Area (Sq.Ft.)	23.24
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	7
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	130
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	122

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
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RAU AND ASSOCIATES INC.
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' | APPROVED BY: | DRAWN BY: MAW
DATE: FEB. 2016 | REVIEWED BY: CAM

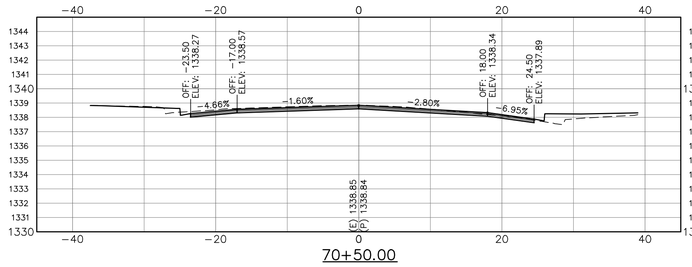
CROSS SECTIONS
STA: 69+40 TO STA: 70+10

CITY OF LAKEPORT

DRAWING NUMBER X-5 of SHTS 13

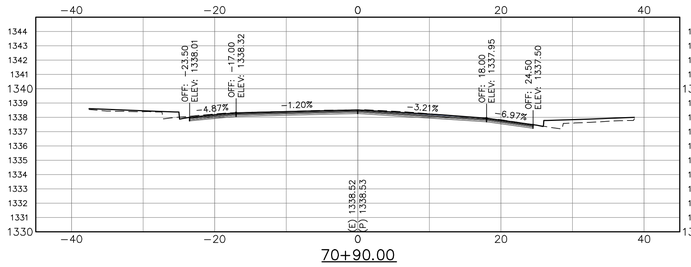
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:48



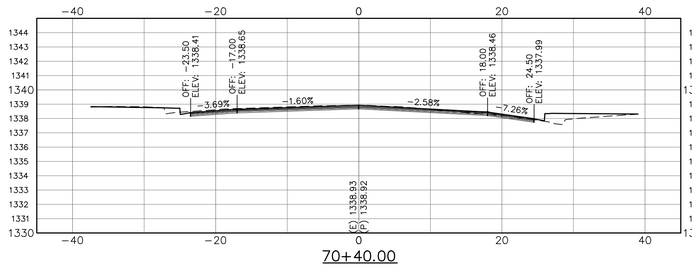
70+50.00

SECTION VOLUME Sta: 70+50.00	
Cut Area (Sq.Ft.)	13.07
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	179
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	171



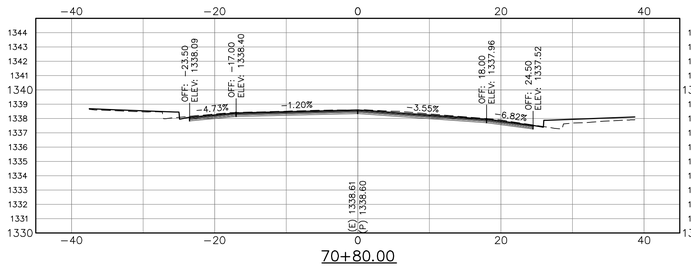
70+90.00

SECTION VOLUME Sta: 70+90.00	
Cut Area (Sq.Ft.)	13.17
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	200
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	191



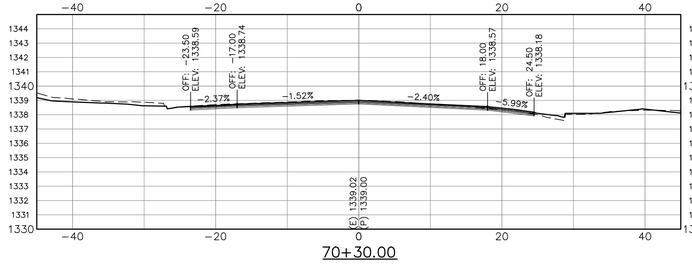
70+40.00

SECTION VOLUME Sta: 70+40.00	
Cut Area (Sq.Ft.)	12.39
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	174
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	166



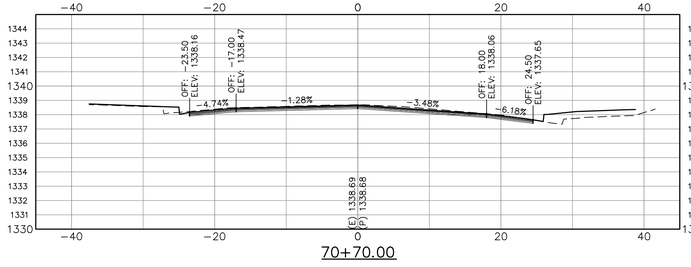
70+80.00

SECTION VOLUME Sta: 70+80.00	
Cut Area (Sq.Ft.)	14.42
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	194
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	186



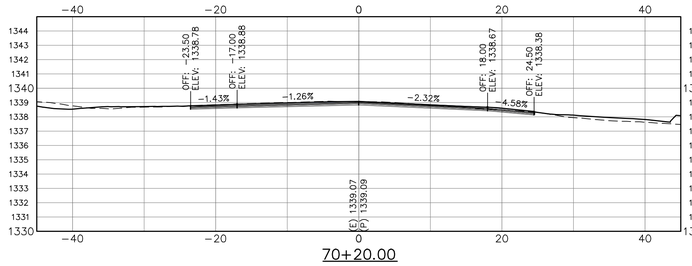
70+30.00

SECTION VOLUME Sta: 70+30.00	
Cut Area (Sq.Ft.)	12.55
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	6
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	170
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	161



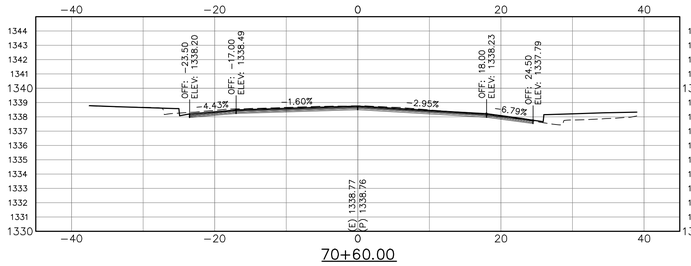
70+70.00

SECTION VOLUME Sta: 70+70.00	
Cut Area (Sq.Ft.)	14.43
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	189
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	181



70+20.00

SECTION VOLUME Sta: 70+20.00	
Cut Area (Sq.Ft.)	19.32
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	7
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	164
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	155



70+60.00

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

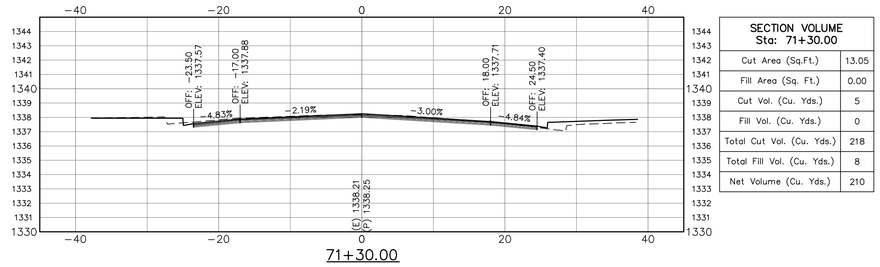
CROSS SECTIONS
STA: 70+20 TO STA: 70+90

CITY OF LAKEPORT

DRAWING NUMBER X-6 of SHTS 13

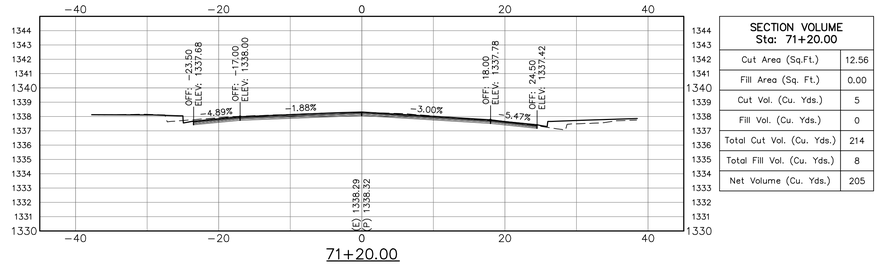
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



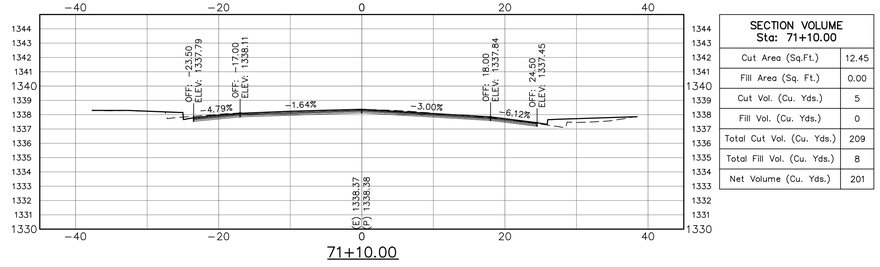
71+30.00

SECTION VOLUME Sta: 71+30.00	
Cut Area (Sq.Ft.)	13.05
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	218
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	210



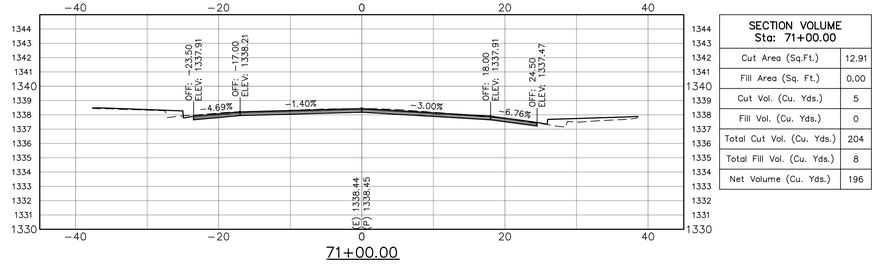
71+20.00

SECTION VOLUME Sta: 71+20.00	
Cut Area (Sq.Ft.)	12.56
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	214
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	205



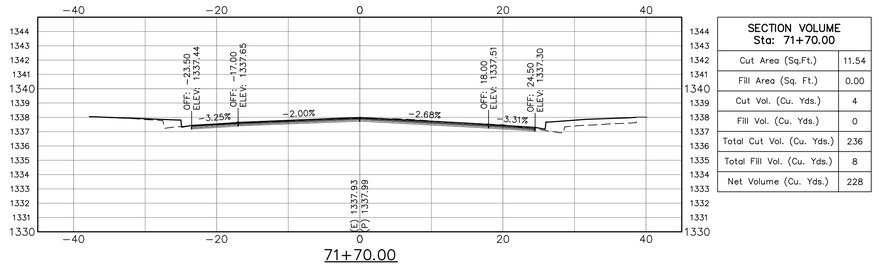
71+10.00

SECTION VOLUME Sta: 71+10.00	
Cut Area (Sq.Ft.)	12.45
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	209
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	201



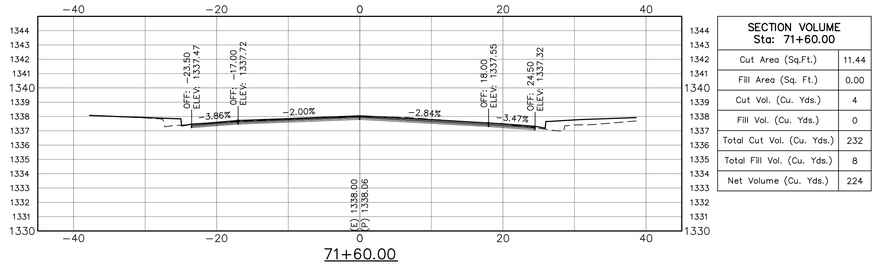
71+00.00

SECTION VOLUME Sta: 71+00.00	
Cut Area (Sq.Ft.)	12.91
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	204
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	196



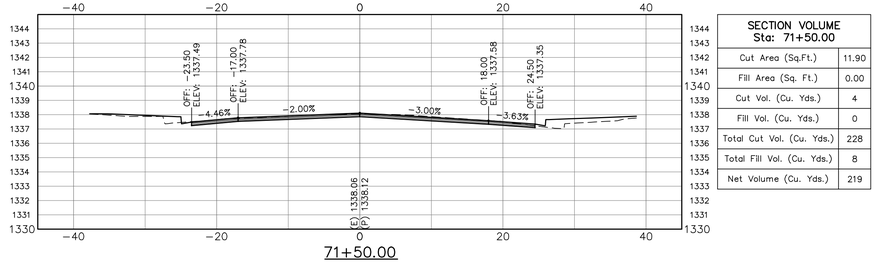
71+70.00

SECTION VOLUME Sta: 71+70.00	
Cut Area (Sq.Ft.)	11.54
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	236
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	228



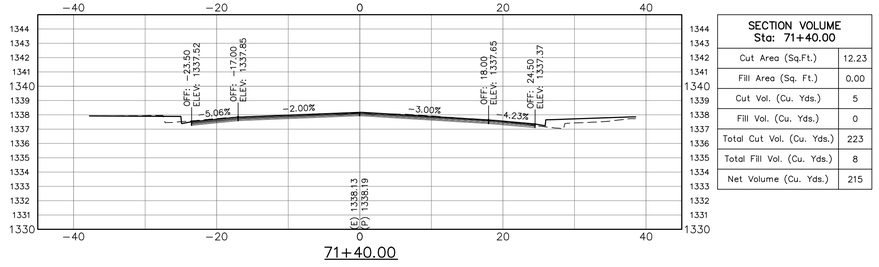
71+60.00

SECTION VOLUME Sta: 71+60.00	
Cut Area (Sq.Ft.)	11.44
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	232
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	224



71+50.00

SECTION VOLUME Sta: 71+50.00	
Cut Area (Sq.Ft.)	11.90
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	228
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	219



71+40.00

SECTION VOLUME Sta: 71+40.00	
Cut Area (Sq.Ft.)	12.23
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	223
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	215

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW

DATE: FEB. 2016 REVIEWED BY: CAM

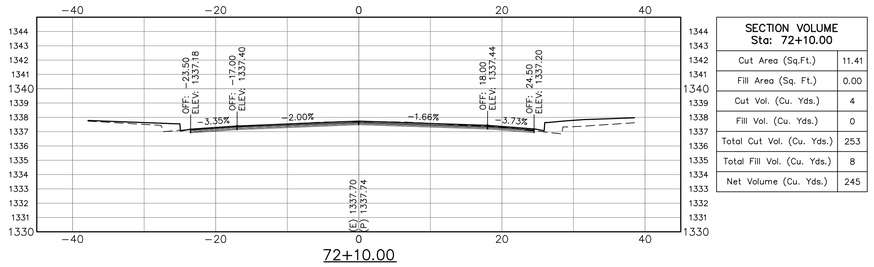
CROSS SECTIONS
STA: 71+00 TO STA: 71+70

CITY OF LAKEPORT

DRAWING NUMBER X-7 of SHTS 13

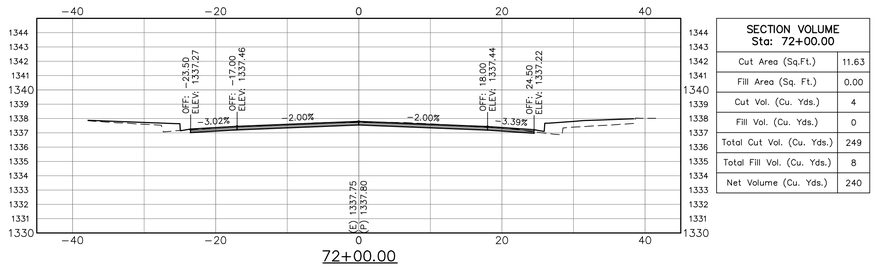
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



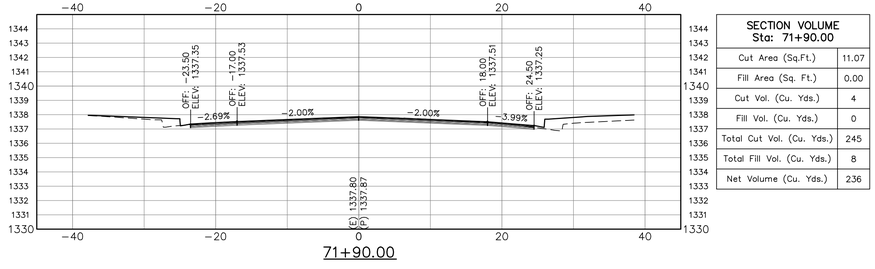
72+10.00

SECTION VOLUME Sta: 72+10.00	
Cut Area (Sq.Ft.)	11.41
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	253
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	245



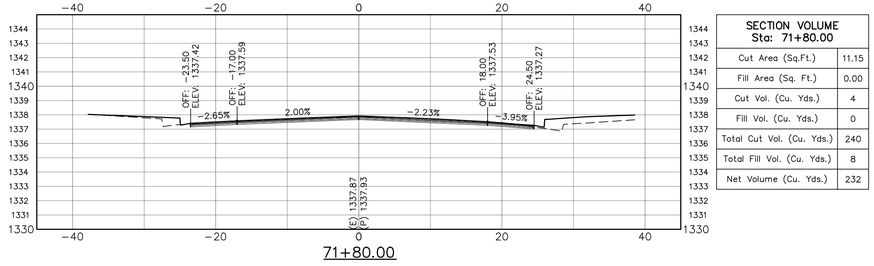
72+00.00

SECTION VOLUME Sta: 72+00.00	
Cut Area (Sq.Ft.)	11.63
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	249
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	240



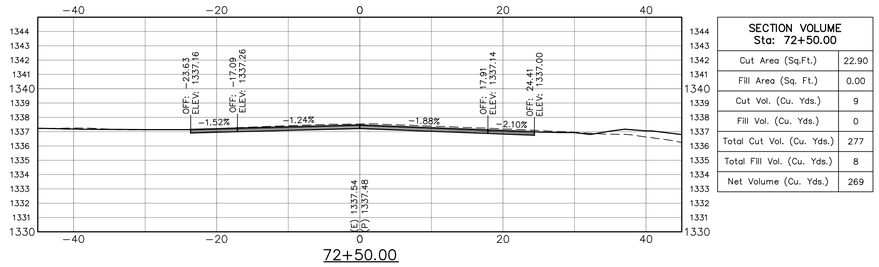
71+90.00

SECTION VOLUME Sta: 71+90.00	
Cut Area (Sq.Ft.)	11.07
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	245
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	236



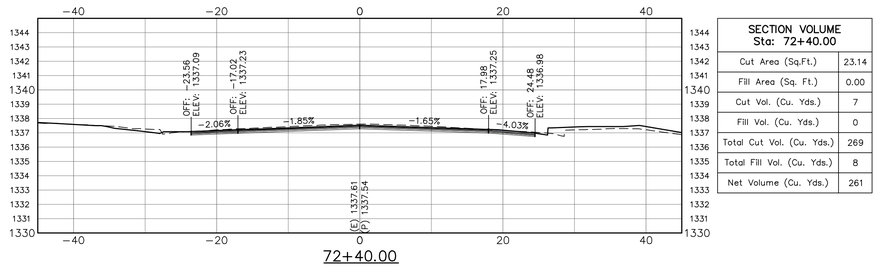
71+80.00

SECTION VOLUME Sta: 71+80.00	
Cut Area (Sq.Ft.)	11.15
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	240
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	232



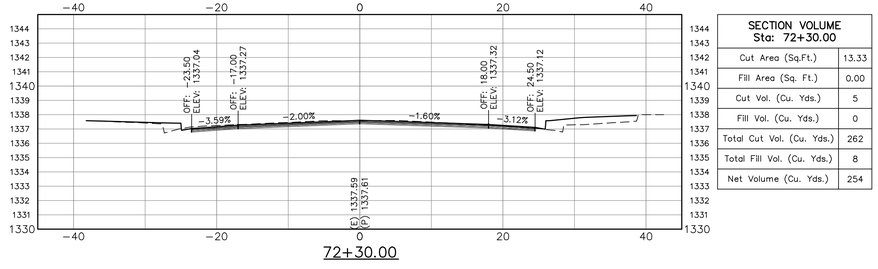
72+50.00

SECTION VOLUME Sta: 72+50.00	
Cut Area (Sq.Ft.)	22.90
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	277
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	269



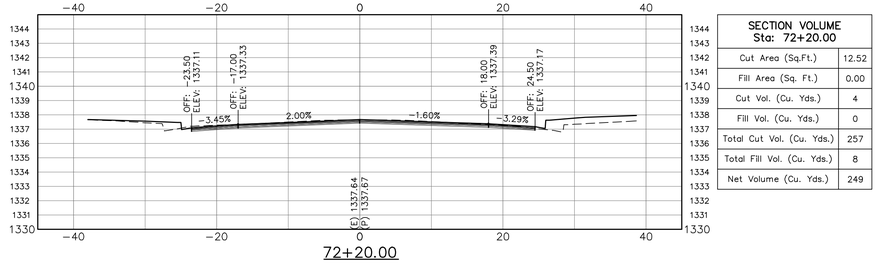
72+40.00

SECTION VOLUME Sta: 72+40.00	
Cut Area (Sq.Ft.)	23.14
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	7
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	269
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	261



72+30.00

SECTION VOLUME Sta: 72+30.00	
Cut Area (Sq.Ft.)	13.33
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	262
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	254



72+20.00

SECTION VOLUME Sta: 72+20.00	
Cut Area (Sq.Ft.)	12.52
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	257
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	249

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
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RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

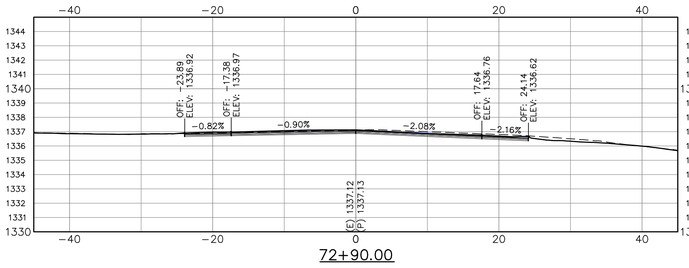
CROSS SECTIONS
STA: 71+80 TO STA: 72+50

CITY OF LAKEPORT

DRAWING NUMBER X-8 of SHTS 13

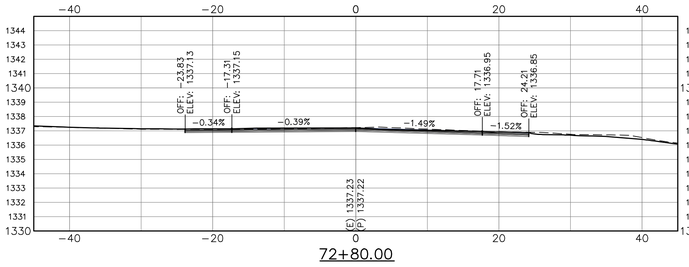
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



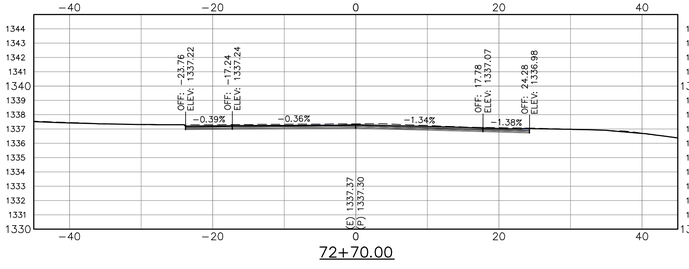
72+90.00

SECTION VOLUME Sta: 72+90.00	
Cut Area (Sq.Ft.)	25.78
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	316
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	307



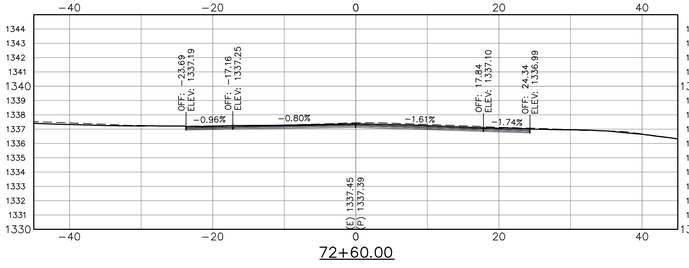
72+80.00

SECTION VOLUME Sta: 72+80.00	
Cut Area (Sq.Ft.)	24.93
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	10
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	306
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	298



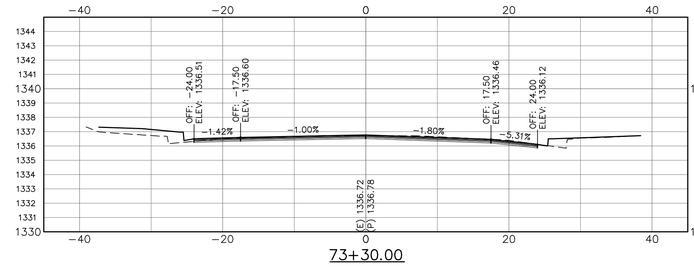
72+70.00

SECTION VOLUME Sta: 72+70.00	
Cut Area (Sq.Ft.)	26.57
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	10
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	297
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	288



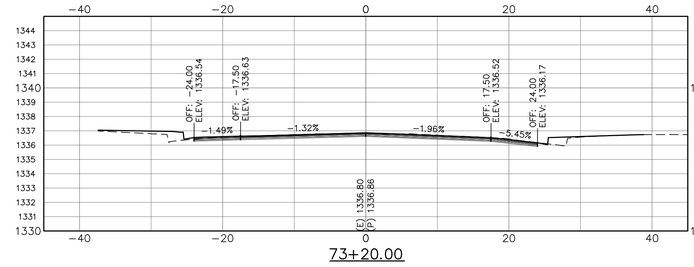
72+60.00

SECTION VOLUME Sta: 72+60.00	
Cut Area (Sq.Ft.)	26.79
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	287
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	278



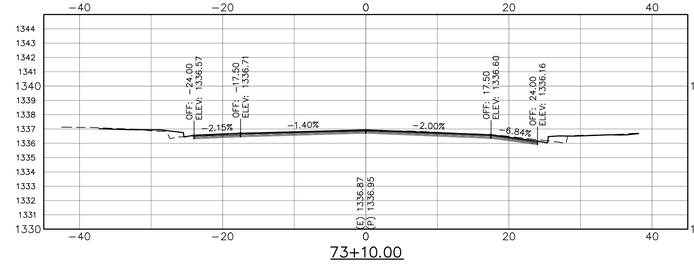
73+30.00

SECTION VOLUME Sta: 73+30.00	
Cut Area (Sq.Ft.)	11.70
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	340
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	332



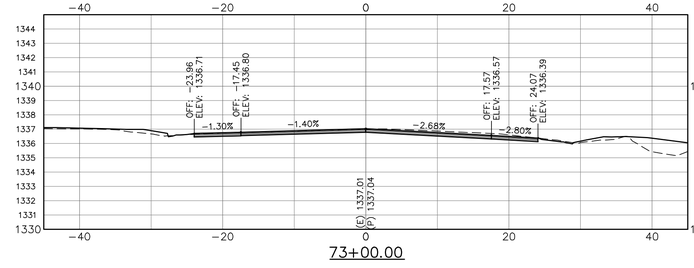
73+20.00

SECTION VOLUME Sta: 73+20.00	
Cut Area (Sq.Ft.)	12.03
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	335
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	327



73+10.00

SECTION VOLUME Sta: 73+10.00	
Cut Area (Sq.Ft.)	11.93
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	6
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	331
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	323



73+00.00

SECTION VOLUME Sta: 73+00.00	
Cut Area (Sq.Ft.)	22.97
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	325
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	316

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

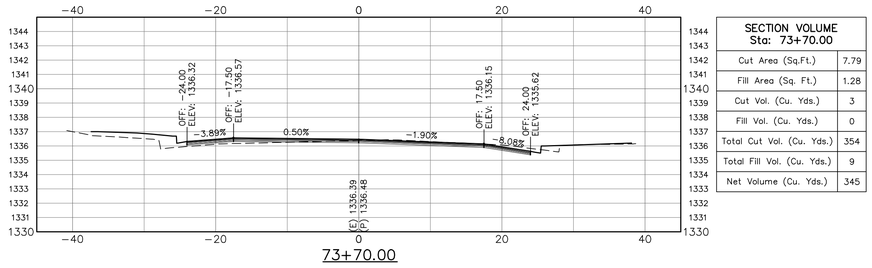
CROSS SECTIONS
STA: 72+60 TO STA: 73+30

CITY OF LAKEPORT

DRAWING NUMBER X-9 of SHTS 13

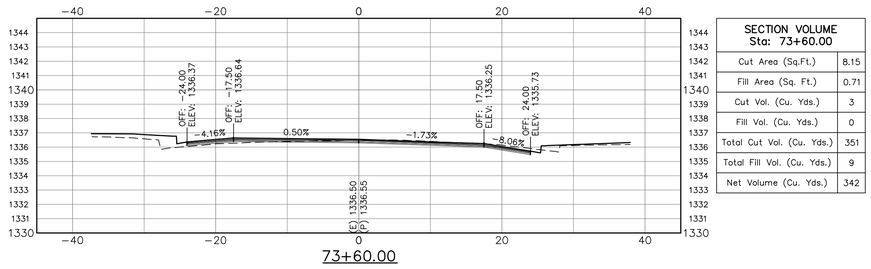
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\Temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



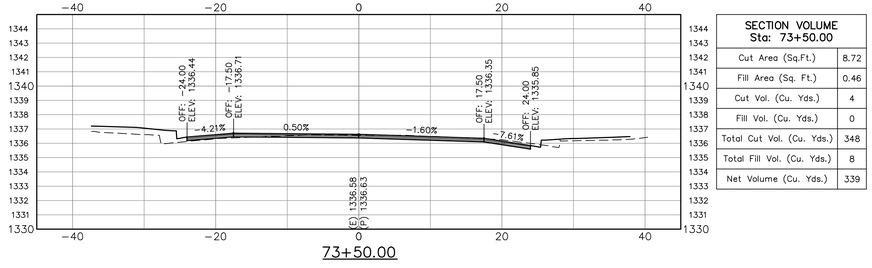
73+70.00

SECTION VOLUME Sta: 73+70.00	
Cut Area (Sq.Ft.)	7.79
Fill Area (Sq. Ft.)	1.28
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	354
Total Fill Vol. (Cu. Yds.)	9
Net Volume (Cu. Yds.)	345



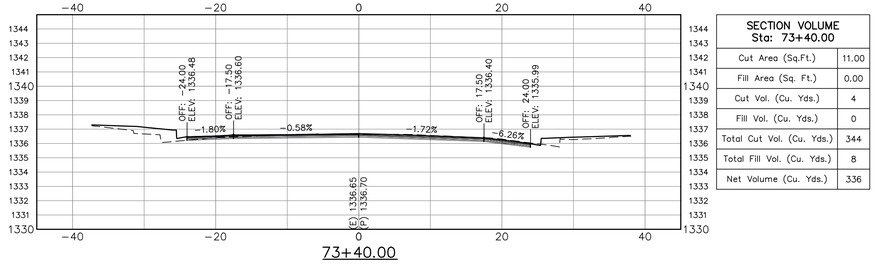
73+60.00

SECTION VOLUME Sta: 73+60.00	
Cut Area (Sq.Ft.)	8.15
Fill Area (Sq. Ft.)	0.71
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	351
Total Fill Vol. (Cu. Yds.)	9
Net Volume (Cu. Yds.)	342



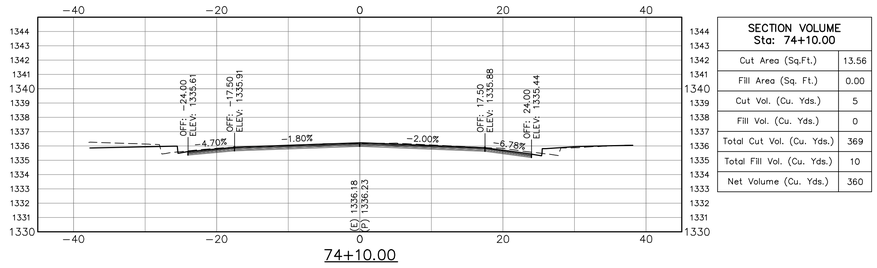
73+50.00

SECTION VOLUME Sta: 73+50.00	
Cut Area (Sq.Ft.)	8.72
Fill Area (Sq. Ft.)	0.46
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	348
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	339



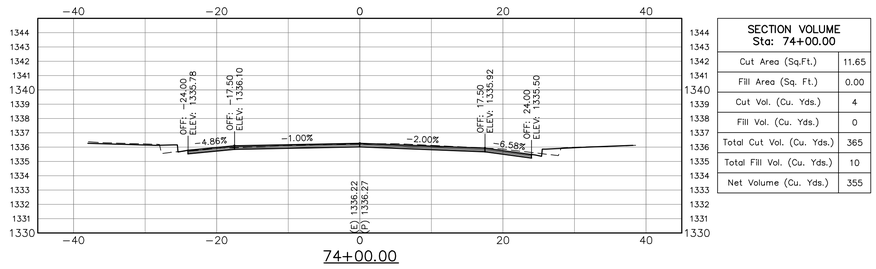
73+40.00

SECTION VOLUME Sta: 73+40.00	
Cut Area (Sq.Ft.)	11.00
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	344
Total Fill Vol. (Cu. Yds.)	8
Net Volume (Cu. Yds.)	336



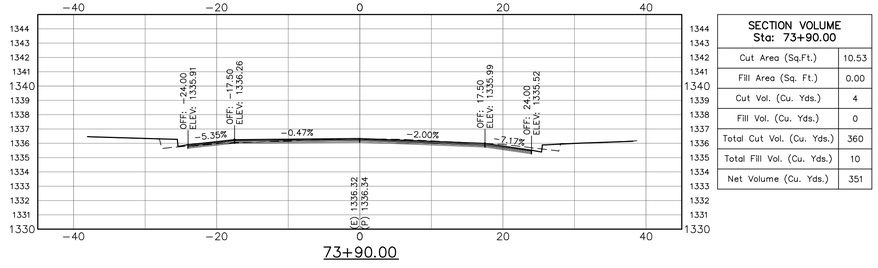
74+10.00

SECTION VOLUME Sta: 74+10.00	
Cut Area (Sq.Ft.)	13.56
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	369
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	360



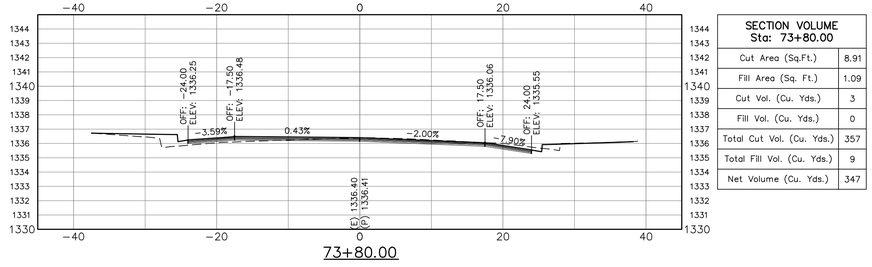
74+00.00

SECTION VOLUME Sta: 74+00.00	
Cut Area (Sq.Ft.)	11.65
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	365
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	355



73+90.00

SECTION VOLUME Sta: 73+90.00	
Cut Area (Sq.Ft.)	10.53
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	360
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	351



73+80.00

SECTION VOLUME Sta: 73+80.00	
Cut Area (Sq.Ft.)	8.91
Fill Area (Sq. Ft.)	1.09
Cut Vol. (Cu. Yds.)	3
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	357
Total Fill Vol. (Cu. Yds.)	9
Net Volume (Cu. Yds.)	347

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
CIVIL ENGINEERS · LAND SURVEYORS
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' | APPROVED BY: | DRAWN BY: MAW

DATE: FEB. 2016 | REVIEWED BY: CAM

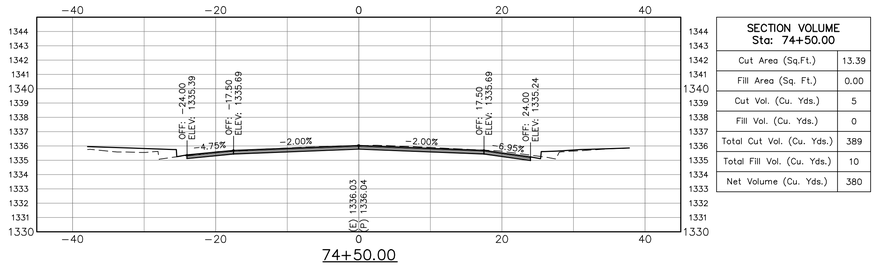
CROSS SECTIONS
STA: 73+40 TO STA: 74+10

CITY OF LAKEPORT

DRAWING NUMBER X-10 of SHTS 13

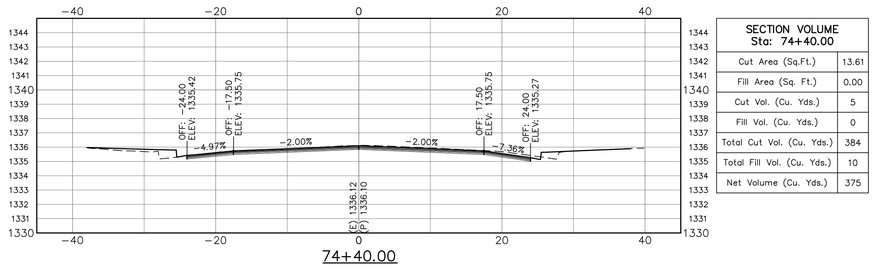
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



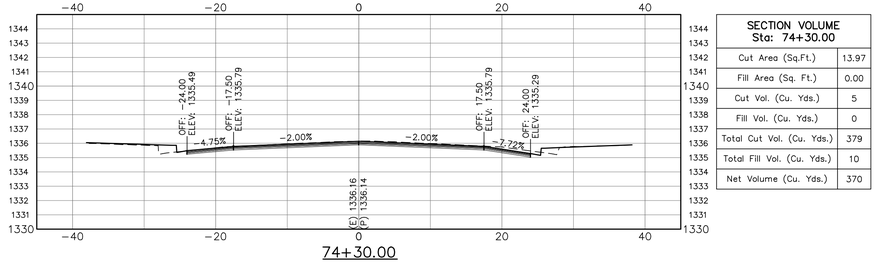
74+50.00

SECTION VOLUME Sta: 74+50.00	
Cut Area (Sq.Ft.)	13.39
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	389
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	380



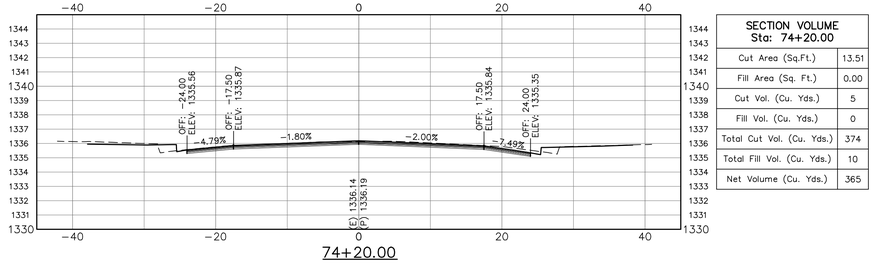
74+40.00

SECTION VOLUME Sta: 74+40.00	
Cut Area (Sq.Ft.)	13.61
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	384
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	375



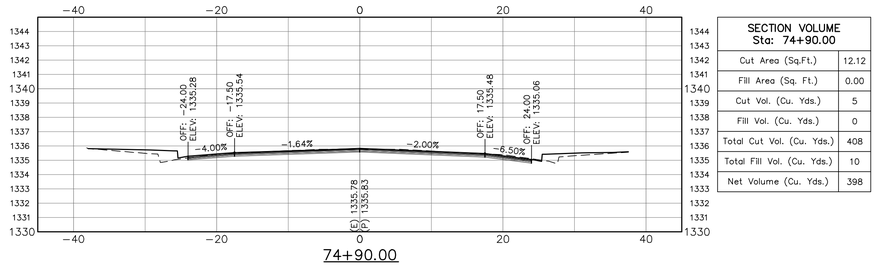
74+30.00

SECTION VOLUME Sta: 74+30.00	
Cut Area (Sq.Ft.)	13.97
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	379
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	370



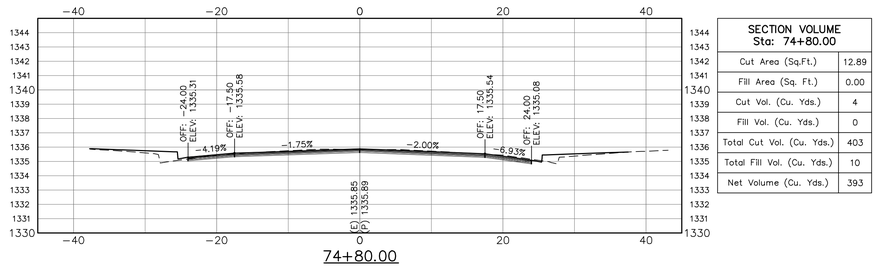
74+20.00

SECTION VOLUME Sta: 74+20.00	
Cut Area (Sq.Ft.)	13.51
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	374
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	365



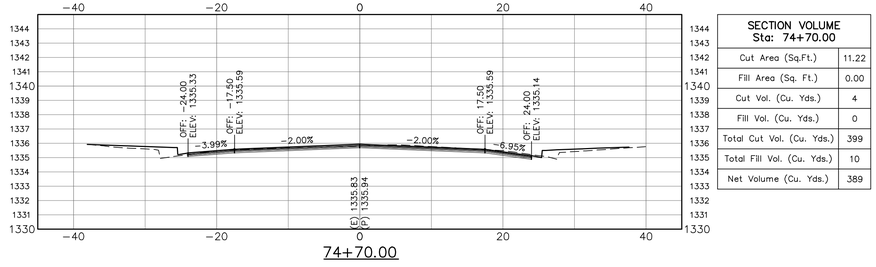
74+90.00

SECTION VOLUME Sta: 74+90.00	
Cut Area (Sq.Ft.)	12.12
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	408
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	398



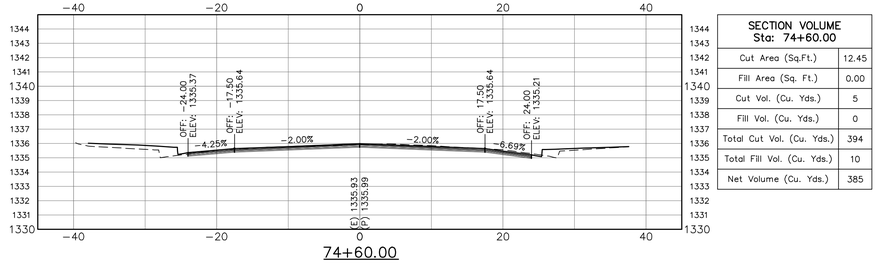
74+80.00

SECTION VOLUME Sta: 74+80.00	
Cut Area (Sq.Ft.)	12.89
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	403
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	393



74+70.00

SECTION VOLUME Sta: 74+70.00	
Cut Area (Sq.Ft.)	11.22
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	399
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	389



74+60.00

SECTION VOLUME Sta: 74+60.00	
Cut Area (Sq.Ft.)	12.45
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	394
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	385

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
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Ukiah, CA 95482

RAU AND ASSOCIATES INC.
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LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW
DATE: FEB. 2016 REVIEWED BY: CAM

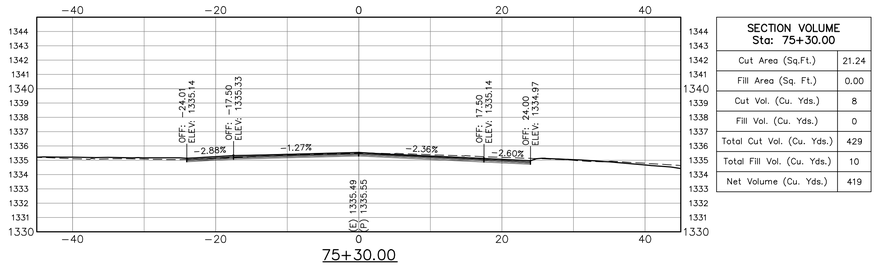
CROSS SECTIONS
STA: 74+20 TO STA: 74+90

CITY OF LAKEPORT

DRAWING NUMBER X-11 of SHTS 13

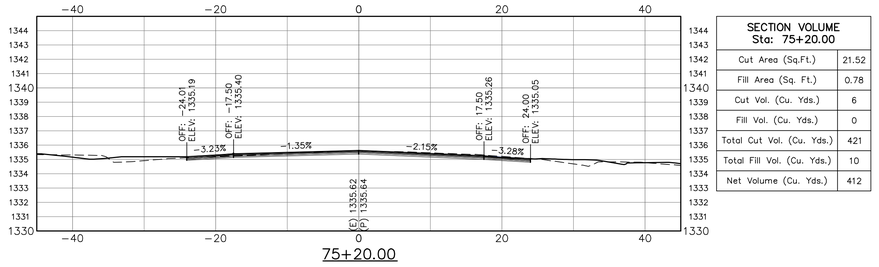
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



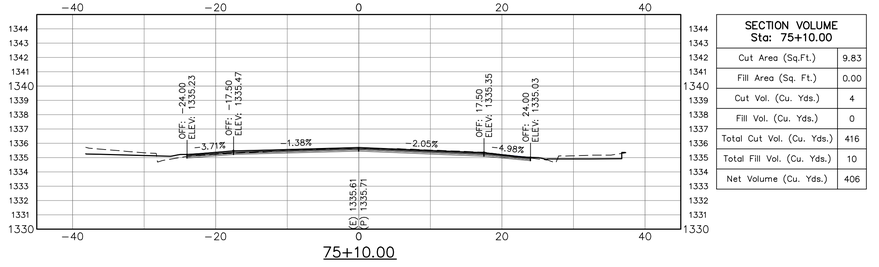
75+30.00

SECTION VOLUME Sta: 75+30.00	
Cut Area (Sq.Ft.)	21.24
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	8
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	429
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	419



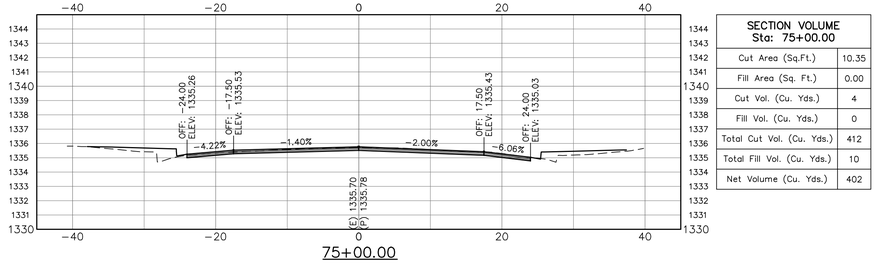
75+20.00

SECTION VOLUME Sta: 75+20.00	
Cut Area (Sq.Ft.)	21.52
Fill Area (Sq. Ft.)	0.78
Cut Vol. (Cu. Yds.)	6
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	421
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	412



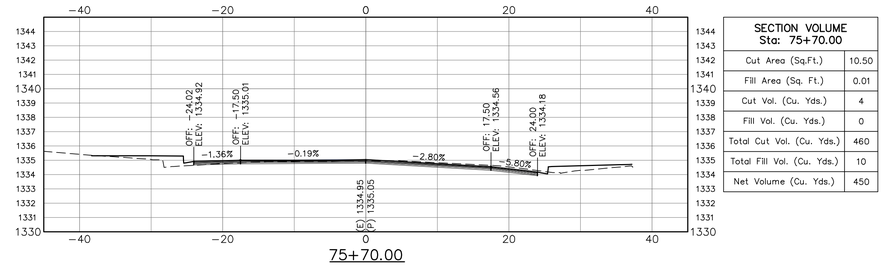
75+10.00

SECTION VOLUME Sta: 75+10.00	
Cut Area (Sq.Ft.)	9.83
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	416
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	406



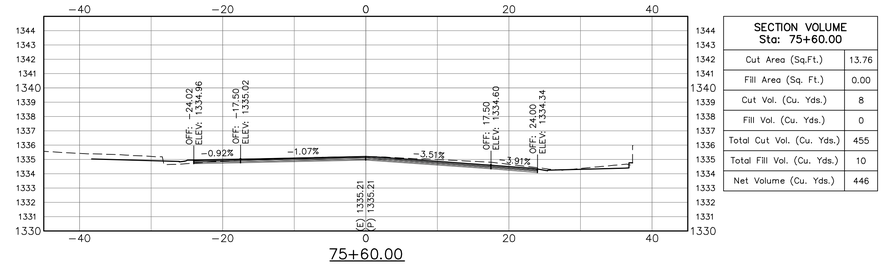
75+00.00

SECTION VOLUME Sta: 75+00.00	
Cut Area (Sq.Ft.)	10.35
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	412
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	402



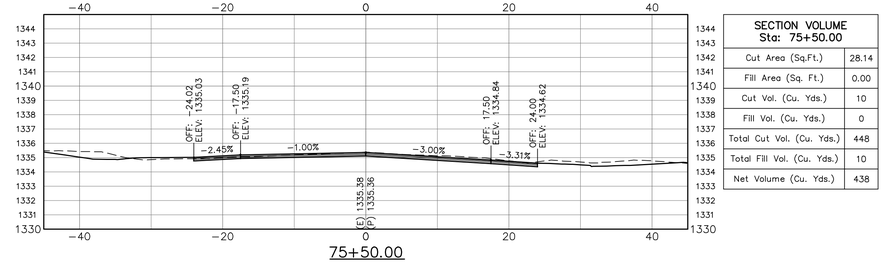
75+70.00

SECTION VOLUME Sta: 75+70.00	
Cut Area (Sq.Ft.)	10.50
Fill Area (Sq. Ft.)	0.01
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	460
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	450



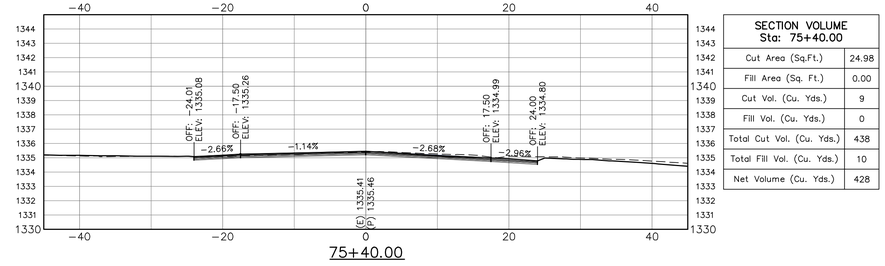
75+60.00

SECTION VOLUME Sta: 75+60.00	
Cut Area (Sq.Ft.)	13.76
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	8
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	455
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	446



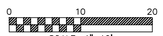
75+50.00

SECTION VOLUME Sta: 75+50.00	
Cut Area (Sq.Ft.)	28.14
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	10
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	448
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	438



75+40.00

SECTION VOLUME Sta: 75+40.00	
Cut Area (Sq.Ft.)	24.98
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	9
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	438
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	428



PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE

0 1/2 1 2 3

BAR REPRESENTS THREE INCHES ON ORIGINAL

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CIVIL ENGINEERS · LAND SURVEYORS
100 NORTH PINE STREET• (707) 462-6536 • UKIAH, CA 95482

LAKEPORT DOWNTOWN IMPROVEMENTS – PHASE II
N. MAIN STREET LAKEPORT, CA.

SCALE: 1"= 10' APPROVED BY: DRAWN BY: MAW

DATE: FEB. 2016 REVIEWED BY: CAM

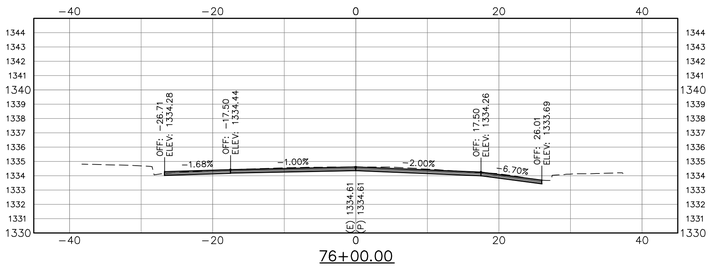
CROSS SECTIONS
STA: 75+00 TO STA: 75+70

CITY OF LAKEPORT

DRAWING NUMBER X-12 of SHTS 13

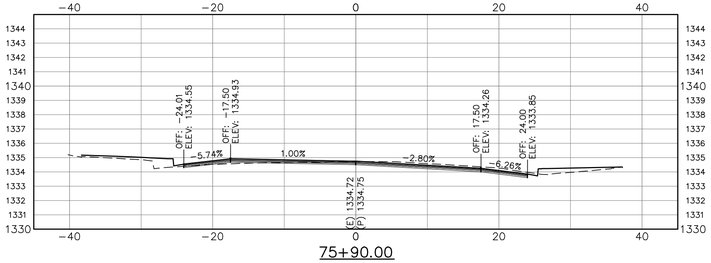
BID SET

Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:49



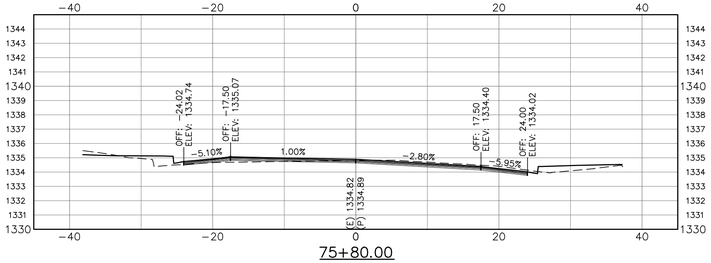
76+00.00

SECTION VOLUME Sta: 76+00.00	
Cut Area (Sq.Ft.)	14.23
Fill Area (Sq. Ft.)	0.00
Cut Vol. (Cu. Yds.)	5
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	472
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	461



75+90.00

SECTION VOLUME Sta: 75+90.00	
Cut Area (Sq.Ft.)	10.29
Fill Area (Sq. Ft.)	0.34
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	467
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	457



75+80.00

SECTION VOLUME Sta: 75+80.00	
Cut Area (Sq.Ft.)	9.08
Fill Area (Sq. Ft.)	0.59
Cut Vol. (Cu. Yds.)	4
Fill Vol. (Cu. Yds.)	0
Total Cut Vol. (Cu. Yds.)	464
Total Fill Vol. (Cu. Yds.)	10
Net Volume (Cu. Yds.)	454

0 10 20
SCALE: 1"=10'

PROJECT ENGINEER: CATHY A. McKEON

LICENSE: NO. 51026 EXP.: 9-30-17

VERIFY SCALE
0 1/2 1 2 3
BAR REPRESENTS THREE INCHES ON ORIGINAL

Crawford & Associates, Inc.
Geotechnical Engineering, Design and Construction Services
100 N. Pine Street
Ukiah, CA 95482

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Xrefs: LDI_CP-PROFILE_SHTS.DWG; LDI_CX-TBLOCK-SECTIONS.dwg
Path: C:\Users\Mike\appdata\local\Temp\AcPublish_5044\LDI_CP-MAIN_SECTIONS_ALL-CD3.dwg Plot Date: Feb 18, 2016 at 12:50